International Energy Biweekly Review

16 November 1977

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INTERNATIONAL ENERGY BIWEEKLY REVIEW

Overview

At the moment, agreement on an increase of 5 to 10 percent in the price of Saudi benchmark crude seems probable as cartel members prepare for their December meeting in Caracas. Whatever the outcome at Caracas, the next OPEC price rise will occur in the midst of an already troubled economic environment. Almost without exception the economic outlook for developed countries is poor—real growth is slowing almost across the board, unemployment is high and creeping still higher, and inflation remains stuck at double the long-term rate. Each of these problems will be aggravated by higher oil prices. In the event of a 10-percent oil price rise, the loss in Big Seven real GNP will approximate half a percent while nearly a full percentage point will be added to the rate of inflation. The damage to growth could be substantially worse if oil-related losses in real income and price stability spark a strong negative reaction from consumers and investors.

Smaller industrial countries will be hit harder than the Big Seven by the oil price rise on several counts. For one thing, the direct loss in GNP will be larger since the smaller countries spend a higher proportion of their income on imported oil. In several cases, notably Turkey, severe payments problems and inability to finance higher oil import costs will necessitate still larger reductions in real GNP, perhaps as much as 2 percent in some instances. For non-OPEC LDCs, the chief impact of higher oil prices will be a more than \$2 billion worsening in their current account deficit. In these circumstances, developing countries would need offsetting increases in foreign exchange drawdowns or added foreign borrowing to maintain imports and avoid losses in consumption and growth.

Our analysis does not attempt to assess the impact of the next OPEC price rise on longer term problems, particularly the issue of future oil supply shortages. Given the lead times involved in developing new supplies, the main adjustments will have to be made on the demand side through higher real prices and in turn slower economic growth, as well as stricter government-mandated conservation measures. At this point, it is impossible to assess how much of an impact toward closing the potential energy supply gap a 10-percent nominal price increase will have.

Despite the potential adverse effects of an oil price rise, foreign governments are not inclined to appeal to OPEC for restraint. The developed countries—large and

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small—are convinced that only the United States can put effective pressure on OPEC. While many would join in a move to try to hold oil prices down, they believe it would be merely a pro forma exercise. Others, which want to preserve what they believe are special relationships with OPEC countries, would try to avoid any involvement. The non-OPEC LDCs may argue against an oil price hike but would do it privately and on their own. Association with the developed countries on this issue would be politically unthinkable. (Confidential)

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ECONOMIC IMPACT AND CONSEQUENCES OF ANOTHER OPEC PRICE RISE

The following analysis by the Office of Economic Research discusses the potential impact of a 10-percent rise in OPEC oil prices this December, under certain assumptions about government policies in the major developed countries. OER assumes (a) that fiscal policies are not adjusted either to offset or to reinforce the contractionary effects of an oil price hike and (b) that monetary policy is neutral, that is, money supply is permitted to adjust to changes in the demand for money due to oil price hikes. In reality, policy reactions will differ widely from country to country, and no one can prejudge the action that will be taken. Nor can anyone prejudge the psychological impact on consumer and investor confidence, elements which could prove overriding during a period of sharp economic slowdown.

Impact on Major Countries

The contractionary impact of a 10-percent oil price rise on domestic demand would directly reduce real GNP in major countries from what it would have been. Additional losses would occur as income declines in one country are transmitted to others through reduced trade flows. Altogether, these income losses would reduce real GNP in the Big Seven countries by roughly half a percent next year.* At the same time, higher oil prices would add nearly 1 percentage point to inflation in the industrial countries while causing a roughly \$7 billion deterioration in their combined trade balance.

Given the impacts, we estimate higher oil prices would pose considerable risks to the already weakening pace of economic recovery. If expansion continues to languish or worsen, as we now expect, the oil-related losses in real income and price stability could spark a strong negative reaction from consumers and investors. The risks of this occurring are particularly high if prices rise at a time when recession psychology is already setting in and households increase savings rates in response to higher inflation and oil-related job losses. In these circumstances the possibility of

Note: The results in this paper were calculated through use of an econometric model linking the domestic and international operations of the Free World economies. See appendixes A to C.

^{*}The calculation of GNP loss assumes that the full contractionary impact of higher oil prices occurs within one year. Most econometric models employed in examining the impact of the 1973-74 oil price hikes assumed that 75 percent of the impact occurred in the first 12 months and the remainder in the next 12 months. If we assume the same pattern, real GNP would be cut by 0.4 percent in 1978. The cumulative effect would still bea 0.5-percent decline in real GNP from what it would have been.

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Big Seven: Impact on Real 1978 GNP of a 10-Percent Oil Price Rise

| | | | Percent Change |
|------------------|--------------|------------------------------------|-----------------------------------|
| | Total Impact | Oil-Related Losses ¹ | Oil-Related Gains ² |
| United States | -0.4 | -0.6 | 0.2 |
| Japan | -0.8 | -1.2 | 0.4 |
| West Germany | -0.5 | -0.8 | 0.4 |
| France | -0.6 | -1.0 | 0.4 |
| United Kingdom | -0.1 | -0.5 | 0.3 |
| Italy | -0.9 | -1.3 | 0.4 |
| Canada | -0.2 | -0.4 | 0.2 |
| Weighted Average | -0.5 | -0.8 | 0.3 |

¹ Direct and indirect GNP losses due to higher oil prices.

Big Seven: Impact on 1978 Inflation of a 10-Percent Oil Price Rise

| | 3 | Percentage Point Change |
|-----------------------|---------------------------------|---|
| GNP Deflator Index | Consumer Price Index | Wholesale Price Index |
| 0.5 | 0.5 | 0.5 |
| 1.0 | 0.9 | 1.5 |
| 0.7 | 0.6 | 1.0 |
| 0.8 | 0.7 | 1.3 |
| 1.3 | 1.2 | 1.1 |
| 1.1 | 1.0 | 1.3 |
| 0.6 | 0.5 | 0.5 |
| | 0.5 1.0 0.7 0.8 1.3 | GNP Deflator Index Consumer Price Index 0.5 0.5 1.0 0.9 0.7 0.6 0.8 0.7 1.3 1.2 1.1 1.0 |

Big Seven: Change in 1978 Trade Due to a 10-Percent Oil Price Rise

| | | | Mary A 1 Mary and 1 Ma | Million US |
|----------------|----------------|--------------------|--|------------------------|
| | Oil Imports | Non-Oil Imports | Exports 1 | Total Trade Deficit |
| Total | 10,080 | -2,490 | 280 | 7,310 |
| United States | 3,970 | -660 | 160 | 3.150 |
| Japan | 2,650 | -490 | 270 | 1.890 |
| West Germany | 1,230 | - 450 | -160 | 940 |
| France | 1,000 | -370 | 10 | 620 |
| United Kingdom | 270 | - 70 | 100 | 100 |
| Italy | 910 | -340 | 110 | 460 |
| Canada | 50 | -110 | -210 | 150 |

¹ Including an increase in exports to OPEC countries resulting from the higher oil revenues due to an assumed 10-percent price hike. These increases total \$670 million for the United States, \$490 million for Japan, \$440 million for West Germany, \$270 million for France, \$270 million for the United Kingdom, \$220 million for Italy, and \$50 million for Canada.

² Direct and indirect GNP gains due to price rises for exports to OPEC.

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oil price hikes turning a moderate cyclical downturn into a serious one cannot be completely ruled out.

Country Impacts

Even if a recession response is avoided, the impact on growth will be considerable, reducing real Big Seven GNP by approximately \$21 billion from what it would have been. Italy would be the biggest loser, with real GNP dropping almost 1 percent. Japan and France would face losses exceeding 0.5 percent, while the other countries would experience smaller income reductions. In the case of West Germany—the only foreign country for which the impact on individual components of final demand can be readily calculated—the rise in oil prices would reduce growth in 1978 personal consumption by nearly 0.4 percentage points and growth in fixed investment by nearly 1 percentage point.

Higher oil prices would have a significant impact on the rate of inflation in major countries. General price levels, as measured by the GNP deflator, would be increased by 0.7 percent on average; the rise in consumer prices would be roughly the same. The United Kingdom and Italy, where inflation remains high, would experience the largest oil-related price rises. The United States would be more vulnerable to the inflationary impact than in the past, since imports now account for almost 50 percent of US oil supplies. In all cases, the impact would be comparable to a more than 20-percent price hike four years ago, because of the increased share of oil in industrial production costs. In addition to the direct impact on production costs, higher oil prices will add indirectly to inflation pressures by fueling wage demands.

The oil price hike would cause at least a \$7 billion deterioration in the total trade balance of the Big Seven. Their net oil import bill will increase by roughly \$10 billion, with the United States accounting for almost 40 percent of the rise. Higher oil bills will be only partly offset by reduced import demand caused by oil-related income losses and increased sales to OPEC members. We estimate that the price-induced rise in exports to OPEC would amount to little more than \$2 billion next year for the Big Seven as a group. West Germany and Japan would account for about 40 percent of the increase, given their share of the OPEC market. Even with increased sales to OPEC, Canada will face an erosion in its non-oil trade balance because of the fall-off in US demand for Canadian goods.

Country Risks

West European countries will have the hardest time dealing with the effects of higher oil prices. France and Italy would face particularly tough sledding. With unemployment stubbornly high, Paris would be in a bad position to absorb any

oil-related job losses. Acting alone to compensate for these losses by taking stimulative measures would add substantially to France's already large current account deficit. Italy, for its part, would be constrained from acting because of its still high inflation rate. Offsetting the contractionary effect on demand would add about \$350 million to Italy's import bill next year.

West Germany is in a much stronger position to offset the effects of oil price hikes by taking stimulative fiscal measures. Bonn, however, is unlikely to add to the \$6 billion package recently announced because of continuing concern over inflation. In these circumstances, West German forcasts of 3.5-percent real GNP gains next year may well prove overly optimistic, especially if oil price hikes further erode consumer and business confidence. The United Kingdom can probably absorb the oil effects fairly well in view of increasing North Sea production. Given its dependence on foreign trade, however, the UK would be hurt in the event of large shortfalls in growth in Germany, France, and elsewhere.

Big Seven: Fiscal Stimulus Required to Offset the Impact on GNP of a 10-Percent Oil Price Rise

| | | | | Million US |
|----------------|----------------------|------------------------|----------------------|------------------------|
| | | Government nditures | Reductio | n in Taxes |
| | Unilateral Action | Simultaneous Action | Unilateral Action | Simultaneous Action |
| United States | 2,680 | 1,780 | 3,770 | 2,890 |
| Japan | 1,790 | 1,067 | 2,960 | 1,820 |
| West Germany | 1,040 | 540 | 1,510 | 680 |
| France | 740 | 440 | 1,000 | 620 |
| United Kingdom | 150 | 100 | 170 | 70 |
| Italy | 610 | 450 | 78 0 | 620 |
| Canada | 240 | 70 | 300 | 30 |

Japan's position is similar to that of West Germany, although it enjoys a larger growth cushion. Offsetting the contractionary effects of oil prices on demand, however, would require a nearly \$2 billion increase in government expenditures or a \$3 billion tax cut. Given Tokyo's concern over large budget deficits and continuing high inflation, the government will be reluctant to take such measures. The fiscal requirements would be cut roughly in half if all major countries did so simultaneously. Canada's economic problems will be exacerbated less by the direct effects of the oil price rise on domestic demand than by the loss in exports associated with the oil-induced reduction in US GNP.

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Smaller Industrial Countries

The smaller industrial countries will be hit harder than the Big Seven by the oil price rise. The direct contractionary impact on domestic demand would be larger since a higher proportion of their income is spent on imported oil. Their heavy reliance on sales to the major industrial countries also makes many of them vulnerable to the oil-induced reductions in Big Seven demand. Altogether, the smaller countries as a group would experience a roughly 0.6-percent decline in real GNP from what it would have been and a roughly \$2.0 billion deterioration in the trade balance. Given the severity of growth and payments problems that many of these countries already face, there is relatively little room to offset the income effects without exacerbating payments difficulties.

Growth and Trade Impacts

The 10-percent oil price rise will have a pronounced impact on the growth of most smaller industrial countries, with the Mediterranean countries facing the biggest losses. In the case of Greece and Portugal, for example, real GNP will be reduced 0.7 percent below what it would have been, according to our calculations. Spain would face a similar loss, while the decline in Sweden will approximate half a percent. Other big losers include Austria, Turkey, Denmark, and Finland, all heavily dependent on oil imports. At the other extreme, the Netherlands and Norway should make out reasonably well because of large net exports of oil and gas.

Selected Smaller Industrial Countries: Estimated Impact of a 10-Percent Oil Price Rise

| | Oil-Related Loss | Oil-Related Rise |
|-------------|------------------|------------------|
| | in GNP | in Trade Deficit |
| | (Percent) | (Million US \$) |
| Australia | 0.2 | 150 |
| Austria | 0.7 | 20 |
| Belgium | 0.6 | 120 |
| Denmark | 0.7 | 120 |
| Finland | 0.5 | 100 |
| Greece | 0.7 | 80 |
| Portugal | 0.7 | 50 |
| Spain | 0.6 | 400 |
| Sweden | 0.5 | 260 |
| Switzerland | 0.6 | 150 |
| Turkey | 0.5 | 140 |

On the trade front, the increase in prices would add more than \$2.8 billion to the net oil import bill of smaller industrial countries, bringing their total costs to almost \$30 billion. Like the Big Seven, only a small part of the additional oil bill will be offset by increased sales to OPEC countries resulting from the oil price hikes. The

oil-induced erosion of demand will also reduce non-oil imports, but only slightly faster than the oil-related fall in exports to Big Seven countries. Even with these offsets, the 17 smaller industrial countries will face at least a \$2 billion increase in their combined trade deficit as a result of the 10-percent price rise.

The smaller countries, of course, would face a substantially larger trade deterioration if they attempt to maintain normal income levels in the face of the oil price hike. According to our calculations, their combined trade deficit would worsen by about \$4.0 billion instead of \$2.0 billion if they take stimu-

Smaller Industrial Countries with Payments Constraints: GNP Loss Required To Prevent Trade Balance Deterioration

| | GNP Loss (Percent) | | GNP Loss (Percent) |
|-------------|-----------------------|----------|-----------------------|
| Austria | 0.7 | Portugal | 1.3 |
| Denmark | 1.1 | Spain | 2.2 |
| Finland | 1.5 | Sweden | 1.2 |
| New Zealand | 1.2 | Turkey | 2.0 |

lative measures sufficient to offset the GNP impact of the oil price rise.* Alternatively, if they choose to avoid any deterioration in their trade accounts, as some will have to do, the oil-related reduction in real GNP would amount to nearly 1.5 percent instead of 0.6 percent. Big Seven countries would also incur additional income losses as a result of the steeper decline in small country import demand.

Danger Points

The magnitude of the income and payments effects of an oil price hike will pose problems for several smaller industrial countries. Turkey, in particular, will face serious debt and payments problems even without higher oil prices. In addition to knocking one-half percentage point from its already dim growth prospects, the 10-percent oil price rise will add at least \$140 million to Turkey's current account deficit—an amount Ankara simply cannot finance. If Ankara is unable to obtain offsetting financing, it will have to reduce income by at least an additional 1.5 percent, bringing the total oil-related loss to 2 percent.

The oil price hike will also aggravate problems for Spain and Portugal, impairing their ability to correct growth and payments difficulties. For Spain, the total foreign exchange costs will amount to \$400 million; the costs would rise to nearly \$600 million if the Spanish Government tries to avoid the 0.6-percent loss in GNP that would accompany the oil price rise. The comparable cost for Portugal would be \$50 million or more, an amount Lisbon can ill afford. Among other small countries, Sweden and Denmark will also have to make adjustments to absorb their increased deficits of \$260 million and \$120 million, respectively.

^{*}This calculation assumes that the smaller 17 countries act simultaneously and that the Big Seven do not take stimulative measures to offset the oil-price impact on GNP.

Impact on Developing Countries

For non-OPEC LDCs, the chief impact of higher oil prices will be on their foreign economic position. The price rise would appreciably worsen their current account deficit by adding roughly \$2.2 billion directly and indirectly to import costs. In these circumstances, developing countries would need offsetting increases in foreign exchange drawdowns or added foreign borrowing to maintain imports and avoid further losses in consumption and growth. Some losses in exports could also be expected to occur. Altogether, the non-OPEC LDCs would experience roughly a 2-percent deterioration in the terms of trade as a result of the price hikes.

Trade Impact

The 10-percent oil price rise would add nearly \$1.4 billion to the net oil import bill of non-OPEC LDCs as a group, raising their total oil bill (net) to about \$15 billion. Brazil, South Korea, Taiwan, and India would face the largest increase in costs. The 50 or more LDCs that import only about 10,000 b/d would each pay \$4 million more annually for their oil pur-

Non-OPEC LDCs: Impact of a 10-Percent Oil Price Rise on Import Costs

| | | | Million US \$ |
|--------------------|-------|----------|-----------------------|
| | Total | Direct 1 | Indirect ² |
| Total Of which: | 2,220 | 1,350 | 870 |
| Argentina | 58 | 29 | 29 |
| Brazil | 421 | 357 | 64 |
| Chile | 45 | 33 | 12 |
| India | 179 | 143 | 36 |
| Peru | 21 | 4 | 17 |
| South Korea | 221 | 169 | 52 |
| Taiwan | 185 | 134 | 51 |
| Zaire | 10 | 3 | 7 |
| Zambia | 16 | 9 | 7 |

¹ Additional costs of oil imports resulting from higher oil prices.

chases. With the possible exception of Mexico, even the non-OPEC LDCs that are now small net oil exporters may not come out ahead. A rise in their non-oil import costs and a loss in export volume will at least partly offset gains from higher prices for their oil.

By raising production costs in developed countries, the 10-percent rise in oil prices would add almost \$900 million to developing countries' nonfuel import costs in 1977. By our calculations, non-OPEC LDC import prices for foodstuffs, intermediate products, and finished goods would increase 0.8 percent on the average if oil prices rise 10 percent.

Non-OPEC LDCs: Impact on Non-Oil Unit Import Costs of a 10-Percent Oil Price Rise

| | Percent |
|------------------------------|---------|
| Imports from the Big Seven 1 | 0.8 |
| United States | 0.4 |
| Japan | 1.3 |
| West Germany | 0.8 |
| France | 0.7 |
| United Kingdom | 1.0 |
| Italy | 1.1 |
| Canada | 0.4 |

¹ Based on 1973 trade weights.

² Additional costs of non-oil imports resulting from higher oil prices.

At the same time, oil-related loss in developed countries real GNP would adversely affect LDC export volume by reducing demand for industrial raw materials below what it would have been. We estimate that the volume losses could cost non-OPEC LDCs almost \$400 million. Some, particularly exporters of light manufactured goods, would compensate by raising export prices in line with oil-related increases in production costs. Raw material exporters may face softer markets because of oil-weakened demand in major countries.

Trouble Spots

For a number of countries, the oil price hikes will complicate already serious international financial problems. Zaire, now facing severe financial difficulties, will see its import bill rise by \$10 million, absorbing almost 15 percent of this year's growth in export earnings. The cost to Zambia, also facing tough economic times because of weak copper prices, will be a more than \$15 million rise in import costs. The added costs to Peru, Chile, Jamaica, and Ghana, although small by international standards, will be quite large relative to their ability to pay. As a share of exports, the cost increase will be largest in the case of Jamaica. In all these instances, even small rises in import costs will impose special burdens unless offset by increased aid.

Among the larger developing countries, Brazil will have the toughest time absorbing the foreign exchange costs of higher oil prices. Altogether, oil-related cost increases will add at least \$400 million to \$500 million to Brazil's import bill next year. These added costs, together with the recent sharp decline in prices for key Brazilian exports, will give a strong push to the current account deficit and, at a minimum, delay plans to relax economic austerity measures. Other countries likely to have problems absorbing oil-related foreign exchange costs include the Philippines and Morocco, both of which are already incurring larger current account deficits than they can sustain.

Downside Risks

The risks of higher oil prices having a substantially worse impact than we have estimated are not inconsequential, particularly if present projections of 1978 GNP growth in the absence of the oil price rise prove overly optimistic. As it is, estimates of 1977 growth are being sharply revised downward, especially in Western Europe. If economic activity should continue this downward drift, the rise in oil prices would occur when recessionary psychology may already be setting in. This would be in marked contrast to the timing of last year's OPEC action, which occurred when recovery, though slow, appeared fairly well entrenched.

The real question is whether already weakening consumer confidence will be further eroded by the effect of higher oil prices on income, prices, and employment.

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If, for example, the momentum of events leads to an increase in household savings rates, the impact on aggregate demand would prove serious. By our calculations, an increase in the savings rate of 1 percentage point, coupled with the oil price rise, would reduce real growth next year in Big Seven countries to only one-half of what is now projected. In these circumstances, real GNP gains would be limited to a mere 2 percent. This is substantially worse than what would occur as a result of a normal response to oil price hikes.

Western Europe is particularly vulnerable to this recession scenario. Even without the oil price rise, real growth in Western Europe will average at best 3 percent. The oil price hike, combined with a recession response, would cut growth to only 1 percent or so. This of course assumes that governments take no measures to compensate for the contractionary impact of the oil price rise on demand. Taking such action would help forestall a recessionary response on the part of consumers and investors. Weaker governments in Western Europe, including the Mediterranean countries, may lack the balance-of-payments flexibility needed to take corrective domestic action unless the stronger economies do likewise.

Appendix A

Determining the Impact of Higher Oil Prices on GNP in Developed Countries

Major Industrial Countries: Base Case Impact

To measure the impact of higher oil prices on real and nominal GNP, we first calculated appropriate tax and expenditure multipliers* using 1960-73 data for each economy. In determining the multipliers, we linked the major economies together using marginal propensities to import and estimated 1976 trade shares. This procedure allows measurement of income losses in each country, including the indirect losses that are transmitted among countries through reduced international trade—a necessary approach in view of the simultaneous impact of higher oil prices on most economies.

Before applying these multipliers, nominal 1978 GNP was increased to take into account the higher rate of inflation caused by the oil price hike. (The methods used in deriving the inflationary effects are discussed in Appendix B.) Because the increase in oil prices will have the same effect on consumer purchasing power as a tax increase, we applied the tax multiplier to the rise in oil costs in deriving the full impact on nominal GNP as the oil price increase works its way through the economy.

^{*}These multipliers measure the total change in GNP caused by a change in taxes or in government expenditures.

There will be some natural offsets that will tend to reduce the impact on GNP. The most important of these will be the rise in developed country exports to OPEC that is caused by the increase in OPEC revenues attributable to higher oil prices. As with all exports, these sales to OPEC will have a stimulative effect similar to that brought about by a rise in government expenditures; we thus applied an expenditure multiplier to determine the full effects of those increased sales on national income. When these effects are combined with the contractionary effects of the oil price hike, they yield the net loss in nominal GNP. To derive the loss in real GNP, these nominal values were deflated by the oil-adjusted GNP price deflator for each country.

Major Industrial Countries: Recession Case Impact

The impact of higher oil prices on real GNP would be substantially greater if consumers reacted by increasing their savings. To calculate the effect of an oil-induced rise in savings rates, we assumed that households would permanently shift 1 percent of their consumption into savings; thus, in an economy where desired savings are 15 percent, this would imply almost a 1-percentage-point increase in the savings rate.

Smaller Industrial Countries: Growth Impact

To assess the impact of a 10-percent oil price rise on the real GNP of the smaller industrial countries, we used a reduced form model that links 29 countries or regions through their foreign trade sector. We simulated the bil-price-rise impact in this model by introducing an autonomous shock into the GNP equation for each country or region that was equivalent to the size of the income drain from higher oil prices. Thus, GNP in each of the countries initially dropped by an amount equal to the size of the increased oil payments. This initial shock and its international feedback provided the estimated GNP impact of the oil price hike on the smaller industrial countries.

We compared, for each of the Big Seven countries, the results of both the reduced form and larger link models. We found the GNP impacts were similar. Consequently, we feel the results estimated by the reduced form model for the smaller industrial countries are comparable with the estimates for the Big Seven.

Appendix B

Determining the Impact of Higher Oil Prices on Inflation Rates in Major Developed Countries

To calculate the impact of higher oil prices on inflation rates in the major developed countries, input-output tables for the United States, Japan, West

Germany, France, the United Kingdom, and Italy were used. The tables enabled us to measure how a change in oil prices affects unit costs for individual items. We then assumed that workers will strive to maintain real wages in the face of the increased inflation caused by oil, forcing nominal wages to rise faster than they would have in the absence of higher oil prices. These oil-induced wage increases provide the second-round impact of an oil price hike on general price levels.

The input-output tables have a somewhat different structure for each country. For the United States we used the Department of Commerce's 87-sector table for 1967. For Japan, we used the Economic Planning Agency's 60-sector table for 1970. For France, Italy, and the United Kingdom, 75-sector tables were used, and for West Germany, a 43-sector table. Each table was aggregated to a common format and updated to take account of relative price movements through mid-1976 using disaggregate wholesale price data for each country. By updating the price weights, we were able to take account of changes in relative prices across national economies. The major factor, of course, is the sharp rise in importance of energy costs since the tables were originally constructed.

To derive the initial impact of higher oil prices on unit costs for each sector, the updated coefficients in the relevent row in the inverted input-output tables ((I-A)⁻¹) were increased by the change in crude oil prices. We judgmentally adjusted prices for other primary energy sources because the rise in oil prices tends to pull up these prices as well. In the case of the United States, however, the oil price rise was weighted by taking into account price controls on domestic production. The resulting sectoral changes in unit costs were then used to construct wholesale and consumer price indexes reflecting the expected rise in oil prices. National weights for each economy were used in this construction.

We then adjusted wage rates for the rise in price levels caused by higher oil prices. The adjustments were made on the basis of quantitative relationships established between changes in the consumer price index and changes in hourly pay rates. The oil-induced portion of wage rate increases in turn caused a secondary rise in price levels by adding to unit production costs. In general, two iterations were made on each economy to capture what we believe would be most of the effect of a rise in oil prices.

The process, which assumes a dollar-for-dollar pass-through in costs, provided the cumulative oil impact on wholesale and consumer prices in each economy. We then used these results to derive the impact on the implicit GNP price deflator for each economy. This measurement was obtained by establishing the quantitative relationship between changes in the consumer price index and changes in the GNP deflator for each country.

Appendix C

Determining the Impact of Higher Oil Prices on Trade Balances

Major Countries

The rise in oil prices will increase net oil import costs across the board. To determine the impact on these costs, we first estimated 1978 net oil import volumes for each major country.* These estimates put 1978 import demand at 22.1 million b/d for the group as a whole. At this level of demand, each 5-percent oil price rise would add nearly \$5 billion to the oil import bill of the major countries.

While oil import costs would increase, non-oil imports would be lower than in the absence of oil-induced income losses. To determine the reduction in such imports, we estimated the marginal propensity to import for each major country; in so doing, we could measure the change in import demand associated with a given change in GNP. With import demand reduced, exports of each major country will also be reduced since the largest share of non-oil imports by Big Seven countries comes from within the group. Using our multiplier model (see Appendix A), we distributed the reduction in each country's imports among the major exporters.

Smaller Industrial Countries

The impact on the smaller industrial countries' trade balances was calculated using the reduced form link model. The impact of the oil price rise on each country's imports volume was calculated by considering the effect of the oil-induced change in real GNP on import demand. The impact on each countries' export volume was calculated by considering the fall in trading partners' imports. The change in trade volume was then converted to value terms using assumed oil-induced changes in export prices and changes in import prices calculated from the change in trading partners' export prices. The results obtained for Big Seven trade balances using the reduced form model were similar to the estimates provided by the larger link model. This again suggests the results for the smaller industrial countries are comparable to those for the Big Seven.

Developing Countries

For non-OPEC LDCs the chief impact of higher oil prices will be on their foreign economic position. To calculate trade balance effects, the direct impact of higher crude prices on the non-oil LDCs' net oil import bil was first calculated.

^{*}We assume that oil import volume will be essentially unchanged from what it would have been in the absence of an oil price hike. Experience since 1973 indicates a high inelasticity in demand for oil; given the small response to the 400-percent rise in crude oil prices in 1973-74, a 5-, 10- or 15-percent price rise should have little effect.

Indirect trade effects were then calculated. These consist primarily of oil-induced price increases in developed economies' exports to the non-oil LDCs. The 0.5-percent reduction in developed countries' GNP would also reduce non-OPEC LDC export volume, although all or part of the loss of revenue was assumed to be offset as LDC exporters raise their prices to compensate for oil-related increases in production costs of manufactured goods. For the purpose of this analysis, we assumed that the volume of non-oil LDC imports was not affected by the oil price rise. To the extent this assumption proves faulty the erosion of the trade balances of industrial countries would be greater than we have calculated. (Confidential)

* * * * *

MOST IMPORTERS UNLIKELY TO APPEAL FOR OPEC RESTRAINT

No foreign government is likely to beat the drums against an oil price increase despite the potential negative impact on its economy. Most developed countries are convinced that they would have no influence on OPEC by themselves and very little more by acting in concert with the United States. The non-OPEC LDCs, individually or as a group, will not take an open stand against OPEC and certainly would not join in a US appeal, even though many might privately welcome it.

Developed Countries

The developed countries maintain that only the United States can have an impact on OPEC decisionmaking. They believe that the key to US influence is its role in the Arab-Israeli dispute. The West Europeans and Japanese see their own Middle East policies as more even-handed than those of the Americans but have little hope of influencing thinking in Washington. These governments also cite increasing US demand for imported oil as the chief economic pressure behind an OPEC price rise. In their view, the lack of an effective US national energy policy undercuts any appeal to OPEC to hold the line on prices.

Since government attitudes toward OPEC actions are shaped more by political than economic realities, the severity of the economic impact of an oil price increase is a poor guide to a country's political response. To date, none of the developed country governments has indicated interest in a concerted move against a price hike. While we anticipate that several oil importing countries would be willing to join the United States in public and private appeals to OPEC countries, a number of others would stand aloof. The United Kingdom and Norway, which have their own oil, would be unlikely to do anything.

Among the major foreign industrial nations, West Germany, Japan, and Canada

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probably would be receptive in varying degrees to a US initiative to forestall an OPEC price rise:

The West Germans, who have been protected from the full impact of OPEC price rises by the appreciation of the Deutschemark, believe that an appeal would carry little weight, particularly in view of the inability of the United States to curb demand for imported oil.

The *Japanese*, determined to avoid even the appearance of confrontation with their Arab suppliers, probably would endorse a demarche only if it were supported by numerous other developed countries.

The *Canadians* have few political hangups regarding the Middle East and probably would urge OPEC restraint; Ottawa already is dipping into general tax revenues to subsidize prices in oil-short eastern Canada.

Among the smaller developed countries with large current account deficits, Austria and Denmark would likely support an appeal to OPEC. Both are relying on export growth to pull them out of the doldrums and thus fear the adverse effect of an oil price rise on their trading partners. Portugal might be persuaded to go along but would need prodding. Lisbon is likely to be extremely cautious in the wake of Arab reaction to its recent recognition of Israel.

A sizable group of developed countries, most of which already are contending with serious balance-of-payments problems, see no advantage to a consumer country plea to OPEC:

The *French* probably would shun what they consider a futile gesture, which inevitably would smack of confrontation.

The *Italians* want to preserve their perceived role as a bridge between the Middle East and North Africa and Western Europe and would be reluctant to join any action that might jeopardize this role or the numerous barter deals Italian firms have arranged with OPEC countries.

The *Spanish*, who do not recognize Isruel and took a pro-Arab stance during the 1973 war, probably could not be persuaded of the value of an appeal to OPEC; Madrid has received about \$150 million in loans from the Saudis this year and does not want to close the door to future borrowing.

The *Turks* believe that OPEC has the right to set prices where it will, and they would be unlikely to work against a price rise for fear of losing what few benefits they receive from their large concessionary oil contract with Iraq.

Two developed countries—the United Kingdom and Norway—probably consider silence the best policy. Norway already is a net oil exporter, and the United Kingdom is expected to become a net exporter by 1980; both have consistently pegged their own oil prices to those of OPEC.

Non-OPEC LDCs

Despite private grumblings about OPEC stinginess, most non-OPEC LDCs are willing to suffer another 10-percent oil price rise without public protest. Any appeal to OPEC would be independent of the developed countries' positions; the non-OPEC LDCs would not risk their prized political solidarity by joining a US-sponsored effort:

Brazil, which has the largest oil bill among the LDCs, has been courting Arab favor and capital since the 1973 embargo and probably would once again press OPEC for preferential treatment for all LDCs.

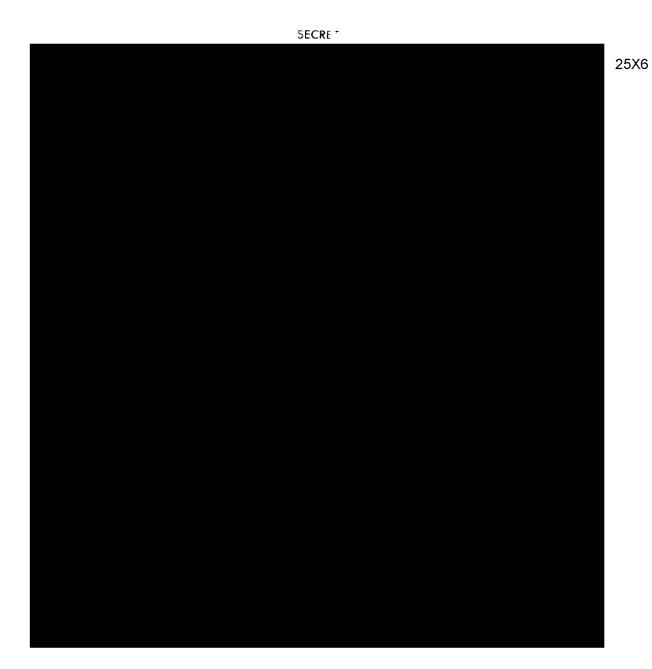
India already has privately expressed concern to OPEC members about a further oil price increase but is unlikely to speak out publicly against countries that regularly provide substantial loans. Officials in New Delhi maintain that they have no right to criticize OPEC because its members were so long "exploited by colonial powers."

Mexico, a net oil exporter, would tacitly support a price hike by OPEC and then follow suit.

The small African states do not want to offend OPEC countries and thereby risk losing the little aid that they receive, even though their prospects for getting more assistance are not all that good. Prosperous Asian countries such as South Korea and Taiwan would not want to diminish their small influence in LDC circles by joining in a US-sponsored appeal to OPEC. (Confidential)

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FRANCE: ENERGY CONSERVATION

This is the second is a series of articles on energy conservation.

France is a leading energy saver among the major industrialized countries. A

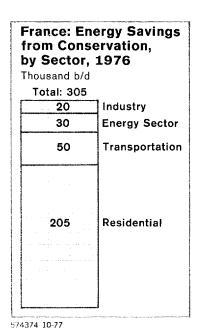
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strong public conservation program combined with higher energy prices resulted in about a 305,000 b/d oil equivalent energy savings in 1976—8 percent below what consumption would have been in the absence of higher fuel prices. Energy conservation in France in 1976 was somewhat above the average for OECD countries that we estimated in "The International Energy Situation: Outlook to 1985," April 1977. Moreover, relative energy savings in France amounted to nearly twice the UK performance. The government's long-term goal is to achieve a 900,000 b/d energy saving in 1985—about 15 percent of expected consumption.

The latitude given policymakers under the French presidential system has enabled Paris to implement an impressive energy conservation program since the 1973 oil crisis. Moreover, unlike most other countries that have lifted the draconian measures imposed during the embargo, Paris has continued to strengthen its program. In July, Paris announced plans to spend \$200 million next year to reduce energy consumption in the industrial sector, which has lagged other sectors in savings. The government also decided to tax industrial energy users and drop incentives to consumption now offered by electric and gas utilities.

The French conservation program aims mainly at reducing oil use, especially in the residential sector, where the bulk of the energy savings has occurred. The oil industry has criticized the government's one-sided attack on oil and argued for equal treatment of other energy sources. Oil accounts for over 60 percent of total energy consumption.

France is the only major developed country to ration heating oil. Since mid-1974 heating oil sales have been limited to 95 percent of the previous year's sales plus an adjustment for a natural expansion due to an increased housing stock. The rationing system is supported by fines. In addition, quantities delivered above the official limits are deducted from individual company quotas the following year. Heating oil use in 1977 will probably run about 20 percent below 1973 levels.



The government has also set an upper temperature limit of 20°C in all homes, apartments, offices, and public buildings since 1974. Government agents are authorized to make spot checks and issue fines to offenders.

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In September 1975 the government ordered that all new multiple-unit buildings with a central heating system must be equipped to permit an allocation of individual heating costs. Moreover, all buildings must be equipped by September 1977 with devices to permit individual allocation of hot water costs. The government has set insulation standards in all new buildings and implemented financial incentives to promote increased insulation in existing buildings.

Major government efforts to encourage conservation in the industrial sector include regulations and financial incentives. In September 1975 the government imposed a special levy on heavy fuel oil consumption above a certain limit equivalent to \$4.70 a barrel, about 40 percent of the current spot market price. Industries making energy-saving investments are entitled to financial aid of up to 25 percent of the project. The government subsidizes up to 50 percent of a demonstration project's cost.

The most visible part of the government's conservation program is the annually announced oil import ceiling. The ceiling has been used more as a goal or success indicator, however, than a conservation measure. The government has yet to restrict imports to meet the limit. In fact, to meet the 1976 ceiling of \$10.7 billion the government juggled the books. Prime Minister Barre announced in February 1977 that crude oil that entered France in the last 10 days of 1976 (prior to the oil price increase) for stocking by refiners would be considered part of the 1977 ceiling of \$11.1 billion.

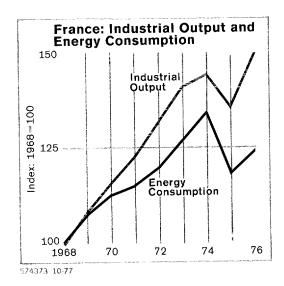
In contrast, France's finance minister fined Electricite de France—the state-controlled power utility—the equivalent of about \$1 million for violating government limits on oil consumption last year. The fine occurred despite utility claims that they had to step up production of electric power in oil-fired power plants sharply because a severe drought last summer had depleted hydroelectric power sources. The ministry acted on a complaint of the state energy agency that accused the utility of violating a government edict that industrial fuel consumption in 1976 be held at 1973 levels. Moreover, the 1977 limit on heavy fuel use by the utility is 20 percent below last year's consumption level.

Growth, Consumption, and Savings

In 1976 France's energy consumption was 1 percent below pre-embargo 1973 levels. Oil use alone registered a 6-percent drop. Had the trend in energy use continued at the 1968-73 annual rate of 6.6 percent, energy consumption would

have averaged 4.3 million b/d instead of 3.6 million b/d actually consumed. The difference reflects both energy savings from conservation and the economic recession. Last year, real GNP was only 8 percent above the 1973 level; if the long-term annual growth rate of 5.9 percent had continued, GNP would have increased 19 percent from 1973.

Prior to 1973 energy use by sector had registered mixed trends. Between 1968 and 1973 energy use by (a) the transportation sector, (b) the energy sector, (c) the industrial sector, and (d) the residential, commercial, public services, and agricultural sector rose at an average annual rate of 8.5



percent, 6.7 percent, 4.9 percent, and 7.3 percent, respectively. The rapid growth in energy use by the transportation sector stemmed from a sharp rise in registered motor vehicles, rising real disposable income, and a drop in the real price of gasoline.

Moderate growth in industrial energy consumption was due in part to a shift away from energy-intensive products. From 1968 through 1973 total industrial output rose at an average annual rate of 7.2 percent while the energy-intensive steel industry grew by 3.9 percent annually. This trend along with technological improvements is partly responsible for a 2.2 percent annual decline in energy consumption per unit of industrial output between 1968 and 1973. Efficiency trends in most other sectors deteriorated. The amount of energy used per dwelling, for example, grew steadily during the period, stemming partly from an increase in the use of energy-intensive appliances.

Savings Record by Sector

We estimate energy savings from conservation amounted to about 305,000 b/d last year. This estimate is derived from a sector-by-sector analysis of consumption and efficiency patterns since 1973. To determine the amount of savings in each sector, we assumed that the 1968-73 efficiency trends would have continued through 1976 in the industrial, energy, and residential sectors with or without the rise in fuel costs. In estimating savings in the transport sector, we related fuel consumption per registered motor vehicle to changes in real disposable income.

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France: Energy Consumption by Sectors, 1976

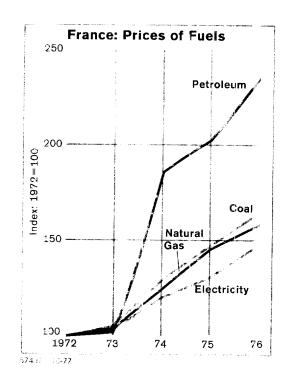
| | | | Residential, Commercial, Public Services, | | | |
|---|------------|-----------------------------|--|--------|-------|--|
| | Industrial | Transportation | Agricultural | Energy | Total | |
| | | Thousand b/d Oil Equivalent | | | | |
| 1968-73 trend | 1,370 | 810 | 1,475 | 670 | 4.325 | |
| Growth adjusted | 1,180 | 720 | 1,395 | 560 | 3,855 | |
| Actual | 1,160 | 670 | 1,190 | 530 | 3,550 | |
| Implied saving | 20 | 50 | 205 | 30 | 305 | |
| | | | Percent | | | |
| Savings as a share of growth adjusted consumption | 1.7 | 6.9 | 14.7 | 5.4 | 7.9 | |

Residential, Commercial, Public Services, and Agricultural Sector

Savings in the residential commercial, public services, and agricultural sector in 1976 amounted to an estimated 205,000 b/d; 15 percent below what would have

occurred in the absence of higher fuel prices and government measures. Savings in this sector far outpaced achievements in all other major sectors. Most of the saving occurred in the residential sector, which accounts for nearly 85 percent of total consumption.

This estimate is based on trends in energy use per square meter of living space adjusted for temperature. From 1968 through 1973 this ratio had been increasing at an average annual rate of 5 percent, largely reflecting an increase in the use of energy-using appliances. In 1976 this ratio was 7 percent below 1973 levels. An agressive government conservation program along with higher fuel oil prices are mainly responsible for the impressive savings record. Since mid-1974 the government has rationed heating oil sales and set a temperature



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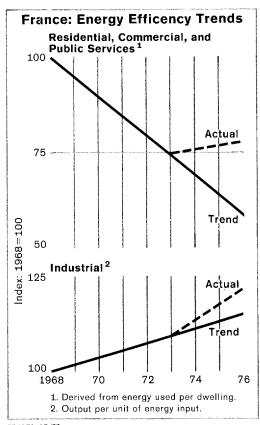
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limit in homes, offices, and public buildings-both supported by fines. Moreover, the government has adopted attractive financial incentives to promote increased insulation. From 1973 through 1976 the weighted average retail price of energy used by the residential sector jumped by more than 70 percent. Heating oil, which supplies about 60 percent of residential energy requirements, rose by roughly 90 percent during the period to 53 cents per US gallon. Home heating oil prices continued to rise in 1977 and by March were 59 cents per US gallon.

Industrial Sector

The industrial sector saved an estimated 20,000 b/d in 1976, less than 2 percent of consumption. Higher energy prices and to a lesser extent government-financed incentive programs were the primary factors behind the energy saving. The weighted average retail price of energy used by industry rose 125 percent between 1973 and 1976. Oil accounts for about 40 percent of energy required by the industrial sector. The impact of financial



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incentives on conservation has likely been small thus far. It will take a few years before pilot energy saving projects are adopted industry wide. The small savings in 1976 are primarily the result of low cost investments and better maintenance. Investments made in 1976 amounting to about \$200 million will start to show a return this year.

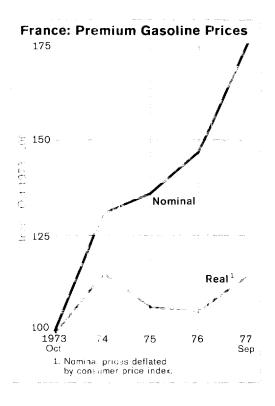
Paris is disappointed with the modest amount of industrial energy saving achieved thus far. Industries claim that the recession, a lack of funds, and the high cost of borrowing have caused a postponement of investments not directly related to production capacities. The energy-intensive iron and steel industry in 1976, for example, used 2 percent more energy to produce a ton of steel than in 1973, thus reversing the pre-embargo trend. Between 1968 and 1973 the iron and steel industry

energy output ratio had been dropping at an annual rate of 0.5 percent. This industry accounts for roughly 25 percent of industrial energy use. The loss in efficiency in the industry since 1973 is mainly the result of a drop in output, which adversely affects the efficiency of heating installations. Iron and steel output last year was nearly 10 percent below 1973 levels.

Transportation Sector

The transportation sector registered energy savings of about 50,000 b/d in 1976.* This saving is roughly 7 percent below what would have occurred in the absence of higher prices, and equals the savings achieved in the United Kingdom. To calculate the savings, we related energy use per registered motor vehicle to changes in real disposable income. Higher motor fuel prices, better vehicle maintenance, and a change in driving habits were responsible.

From late 1973 to yearend 1976 retail premium gasoline prices rose by two-thirds, reaching \$1.71 per US gallon. During this period taxes rose nearly 50 percent to over \$1.00 per US gallon. Last year the amount of energy consumed per registered vehicle was 7 percent below 1973 levels. From 1968 through 1973 this ratio was climbing at an annual rate of 3 percent.



Despite the savings, the amount of fuel used per vehicle rose last year for the first time since 1973. A small decline in the real price of gasoline was partly

^{*}In measuring energy savings in the transport sector we compared actual energy use with consumption obtained by assuming that the pre-embargo relationship between energy use per registered motor vehicle and real disposable income remained the same. Road transport accounts for about 85 percent of energy consumption in the transportation sector.

reponsible for this development. The real price of premium gasoline, however, turned upward again from January-June this year because of higher crude oil prices and a tax increase of 5 cents per gallon.

France: Retail Gasoline Taxes

| | | | US ce | nts per gallon |
|-----|------|---------|---------|----------------|
| | | Premium | Regular | Diesel Fuel |
| Oct | 1973 | 65 | 69 | 39 |
| Oct | 1974 | 71 | 75 | 44 |
| | 1975 | 73 | 77 | 44 |
| | 1976 | 79 | 84 | 47 |
| Jun | 1977 | 101 | 108 | 54 |

Energy Sector

Savings in the energy sector totaled an estimated 30,000 b/d last year. About 10,000 b/d were saved by reducing energy losses in electric power generation. Between 1968 and 1973 the amount of energy loss per unit of fuel input dropped at an average annual rate of 2 percent. Had this trend continued, the ratio in 1976 would have been 6 percent below the 1973 level instead of the 16 percent drop actually achieved. Although the precise amounts cannot be quantified, some additional savings were achieved from the continue shift to natural gas, which burns more efficiently than coal and oil.

Savings of about 15,000 b/d were achieved in primary energy production, conversion, and transportation of fuels. Most of the savings was achieved in bunker usage. Because of slow steaming, bunker consumption declined 5 percent since 1973 while export volume rose 15 percent. Savings in energy production, conversion, and internal transportation were small last year. The amount of energy used in these industries remained proportional to final energy consumption. Between 1968 and 1973 this ratio declined at an average annual rate of 0.3 percent. In 1976 the ratio was less than 1 percent below the pre-embargo trend, indicating a marginal gain in efficiency.

Despite large investments by oil refiners, savings by this sector last year averaged only about 5,000 b/d. In 1975 refiners invested \$30 million to save energy and fight pollution. Savings by the refining industry have been hindered by sharply reduced capacity utilization, which fell from 86 percent in 1973 to 69 percent last year. Savings should mount rapidly as higher demand raises operating refinery rates. In the United States, for example, where operating refinery utilization has remained high, refiners have reaped impressive energy savings of more than 12 percent.

Outlook

The prospects for France reaching its 1985 savings goal of 900,000 b/d are good. France's limited resource base gives it few alternatives in the short or medium term in reducing its oil dependence. Consequently, it will likely continue to be

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committed to conserving energy. In July, for example, Paris strengthened its conservation program by dropping incentives to use electricity and by penalizing builders of dwellings supplied by electricity.

Additional savings will be more difficult than the low-cost, good-housekeeping type measures already made. Future investments will undoubtedly be less profitable, requiring the inconvenience of shutting down some installations that have not been fully amortized. Slow economic growth will also hinder energy saving investment projects.

Nevertheless, Paris recognizes that an acceleration in energy saving investment will be required to meet its 1985 goal. The government is particularly disappointed in the modest savings attained by the industrial sector thus far. To spur efforts in this sector, Paris recently allocated \$200 million next year to industries making energy-saving investments. Moreover, Paris will implement a tax of 1 to 3 percent on energy used by industry, effective 1 January 1978.

Appendix

France: Government Conservation Program

The French energy program has placed more emphasis on energy conservation than most other major industrialized countries. Faced with a poor energy resource base, Paris believes that energy conservation together with nuclear power is the most efficient means of increasing French energy independence and security of supply. In 1976 France imported about 75 percent of its energy supplies.

Energy Conservation Agency

In November 1974 the government created an Energy Conservation Agency (ECA) answerable to the Ministry of Industry and Research and administered by an executive committee chaired by the Delegate General for Energy. With a staff of 50, the agency has the following major functions:

- To propose and administer conservation programs.
- Advise the general public on ways to save energy.
- Launch energy-saving demonstration projects.
- Provide assistance for certain energy-saving projects.

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The goal of the agency is to reduce 1985 energy use by 900,000 b/d oil equivalent—15 percent below the level forecast prior to the energy crisis. To meet this goal, the agency has a three-pronged attack on all major energy sectors including actions designed:

- To reduce energy waste.
- Encourage investment in energy-saving devices.
- Promote research and development in the energy conservation field.

Residential, Commercial, and Public Sector

The brunt of the government's conservation policy is on heating requirements. The Energy Savings Act of 1974 contains two provisions aimed at the residential sector: one authorizes the government to take measures for controlling or allocating energy products and for banning advertising; the other authorizes it to adopt measures to reduce consumption specifically for heating purposes.

The ECA launched a publicity campaign in 1975. Six films appeared on television a total of 65 times and six advertisements appeared in daily newspapers and magazines (a total of 250 times). This campaign was continued in 1976 and 1977. The ECA conducts a telephone answering service allowing the public to obtain energy conservation information.

Since mid-1974 the government has rationed heating oil sales. Oil companies' sales are limited to 95 percent of the previous year's sales plus an adjustment for a natural expansion due to an increased housing stock. The rationing system is supported by fines. In addition, quantities delivered above the official limits are deducted from individual company quotas the following year. The quota was met in 1974 but exceeded by 2 percent in 1975/76 heating year (1 July-30 June). Preliminary data indicate sales in 1976/77 heating season were 5 percent below the quota. The quota for 1977/78 is tentatively set at only 2 percent above last year's consumption level.

In December 1974 the government set an upper temperature limit of 20°C in all homes, apartments, offices, and public buildings. Agents of the Measuring Instruments Service are authorized to make spot checks and through 1976 nearly 21,000 checks had occurred. Fines of \$120 to \$200 can be issued for infractions of temperature limits. A total of 370 warnings or fines were issued in 1975.

In September 1975 the government ordered that all new multiple-unit buildings with a central heating system be equipped to permit an allocation of individual heating costs. Moreover, all multiple-unit buildings had to be equipped by September 1977 with devices to permit individual allocation of hot water costs.

Transport Sector

Because gasoline, the major fuel used in the transport sector, had been restrained by a high tax prior to the oil crisis, Paris believes the potential for conservation in this sector is limited. Moreover, because energy use in this sector is relatively small, a 50-percent drop in energy use would result in only a 9-percent drop in total energy use. Nevertheless, the government's 1985 energy-saving target is 120,000 b/d.

Government efforts to promote savings in this sector include a publicity campaign and the promotion of public transportation. The ECA furnishes energy-saving information to the public indicating ways of reducing consumption. The government has circulated several hundred thousand pamphlets indicating the fuel efficiency of all motor vehicles sold in France.

Since late 1973 the tax on regular gasoline has jumped by 55 percent to 101 cents per US gallon. The automobile property tax is now based on fuel efficiency as opposed to horsepower as in the past and the government has set speed limits. Because the speed limits are excessive, 129 kilometers per hour on major highways, their impact on consumption has been negligible.

In liaison with specialized laboratories the ECA has established methods for testing fuel-saving devices and measuring fuel efficiency. To receive approval from the ECA, a saving device must improve efficiency by 8 percent. Since April 1976 the standard fuel efficiency of private automobiles must be included in all advertising referring to fuel consumption, power, and performance.

To promote public transportation, the government in July 1974 reduced the VAT (value-added tax) on public transportation from 17.6 percent to 7 percent. At the same time the government raised the gasoline tax.

The government encourages private companies and institutions to research and develop energy-saving automobiles and fuel. Last May, Elf Aquitaine began marketing a new more efficient gasoline called Elf-Moins. Tests have indicated that the properties of a new additive result in a 6-percent energy saving. Elf Aquitaine devotes about \$5 million, or 10 percent, of its research and development budget to energy saving.

Industrial Sector

The 1985 energy-saving target for industry is 320,000 b/d oil equivalent. This saving will require a 25-percent drop in energy consumption per unit of output. To attain this objective the ECA estimates that energy investment spending must total \$4 billion from now until 1985.

Government efforts to encourage conservation in the industrial sector include a publicity campaign, regulations, and financial incentives. The aim of the publicity campaign is to increase awareness of the need to conserve and to inform industry of existing or new energy-saving techniques, processes, or products. The agency advises companies on the organization of conservation training courses and, in association with specialized laboratories, assesses the performance of energy-saving equipment.

In May 1974 the government ordered authorized experts to examine energy use in major industrial plants. More than 100 experts have been appointed to assess about 4,000 establishments. The aim of this measure is to force industry to take a critical look at potential energy savings. In February 1975 the government established minimum yields required for boilers.

One of the more visible conservation measures is a special levy imposed in September 1975 on heavy fuel oil consumption above a certain quota and below a certain quota. The tax of \$4.70 a barrel is equivalent to about 40 percent of the current spot market price for heavy fuel oil. The levy is partly responsible for the 4-percent drop in heavy fuel oil use since 1973. Individual plants pay the tax on consumption above 87 percent of 1973 levels. The tax is not imposed on consumption above 112 percent of 1973 levels so as not to penalize growing industries. To avoid red tape, the tax is not imposed on plants that consume less than 6,700 barrels annually. The total tax may not exceed 0.4 percent of a plant's annual sales. Revenue from the levy helps subsidize energy-saving investments. The tax may be wholly or partially suspended for five years if plants undertake Sectoral Agreements established by the government industry and trade unions to make energy-saving investments.

The standard contract Sectoral Agreement is for five years and sets:

- 1980 conservation targets.
- Financing provisions.
- Types of investments qualifying for aid.
- Provisions for metering energy use in plants.
- Procedures for periodic consultations with ECA officials on choices of energy sources.

The maximum rate of aid was raised from 15 percent to 25 percent this year. In 1976, 17 agreements were concluded with trade organizations covering more than 1,000 plants and representing 65 percent of industrial energy use. The goal of these agreements is to achieve an annual saving of 100,000 b/d by 1980.

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The government has set insulation standards on all new buildings. Financial incentives have been adopted to promote increased insulation in existing dwellings. Taxpayers are allowed a tax credit of up to \$1,400 plus \$200 per person to cover insulation costs.

Other energy conservation measures in this sector include bans on:

- Interior lighting of unoccupied buildings.
- Lighting advertising signs from 10PM to 7AM.
- Advertising of portable heaters.

In the public sector each ministry is required to develop its own conservation program. To encourage conservation, the budget for heating is separated in each ministry and the purchase of automobiles is subject to approval by the Ministry of Industry and Research.

The ECA promotes new technology products and processes through a demonstration projects scheme. The following are criteria for the scheme:

- It must be a full scale project.
- The prospects of profitability must be sufficient.
- It must be suited to such general use that appreciable energy savings can be expected on a national scale.

The government subsidizes up to 50 percent of a project's costs (the average is 20 percent). To date 54 of 80 demonstration projects have been launched in industry. The projects represent a total investment of about \$32 million, including subsidies of \$7 million. The government estimates that these projects will save nearly 200,000 b/d annually by 1985. At yearend 1976, 12 projects had been completed with expected energy savings achieved or bettered in 10 of the projects.

| Since December 1974 the ECA has banned all advertising | | Total | Positive | Negative |
|---|--------------------------------|----------------|----------|----------|
| aimed at encouraging energy consumption. In 1975 a special commission set up to | Opinions Applications Warnings | 40 28 36 | 29 15 | 11 13 |

monitor advertising met 11 times and handed down over 100 opinions, shown in the accompanying tabulation.

The advertising law is supported by a prison sentenence of from 3 to 12

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months, and a fine of \$100 to \$5,400, or both to repeat offenders. In 1975, two citations were issued.

France Toughens Program

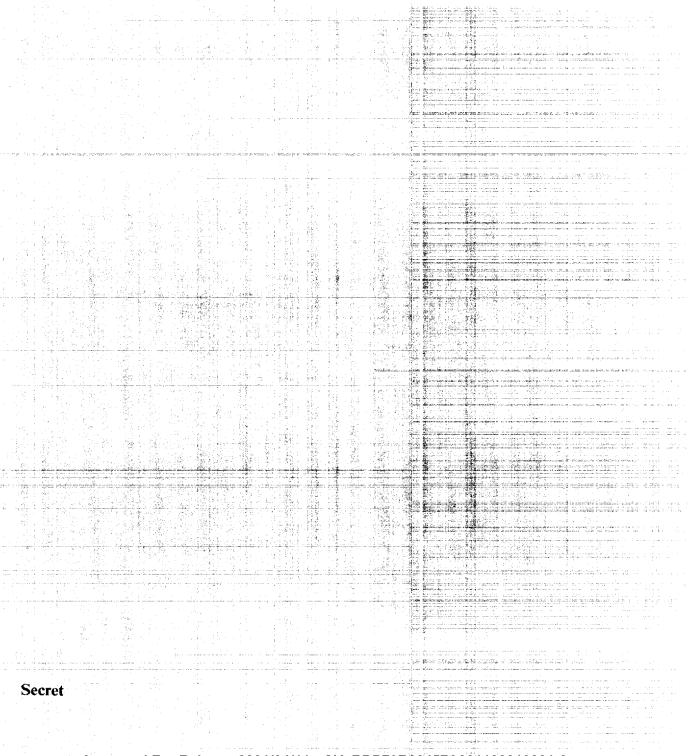
Paris has continued to strengthen its conservation program. The budget for administering the government's program doubled in 1977 to \$13 million. In May 1977 a series of new conservation measures were approved, including controls on water heating and increased insulation standards in new construction. The Industry Ministry expects the new measures will save 100,000 b/d oil equivalent annually.

In July the government announced plans to spend \$300 million next year to reduce energy consumption. Two-thirds of this will be available to industries that intend to make energy-saving investments. The government has also decided to tax industrial energy users and drop incentives to consumption now offered by electricity and gas utilities. A tax of 1 to 3 percent on energy used by industries will start on 1 January 1978, but companies that make energy-saving investments will be exempted. These new measures stem from the government's disappointment with industrial energy savings.

In addition to adjusting utility rates to remove advantages of increased consumption, builders of dwellings supplied entirely by electricity will be penalized. A \$500 tax will be imposed on new apartments and \$700 on new private homes. From June 1978 the estimated heating cost will be required in all advertisements of new homes.

The government also plans to implement recommendations of a special commission that include utilization of waste heat from the thermal power plant at Cordemais in the Nantes-Saint Nazaire region and the Brigey Plant in the Lyon region and installation of gas turbines to supply the urban heating system in the northern Paris suburbs. (Confidential)

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International Energy Biweekly Statistical Review

16 November 1977

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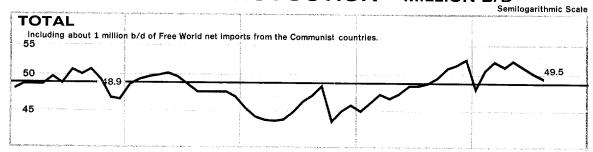
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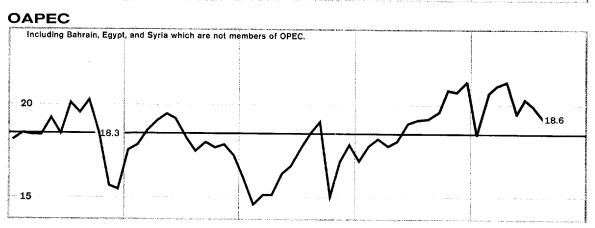
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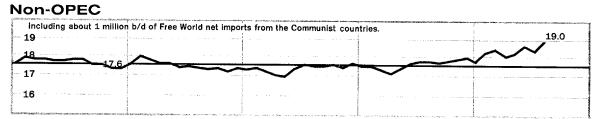
STATISTICAL REVIEW

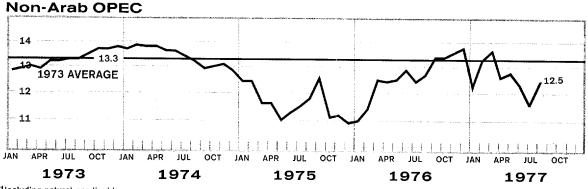
| Total Free World Oil Production (Chart) | |
|--|----|
| OAPEC Oil Production (Chart) | |
| Non-Arab OPEC Oil Production (Chart) | |
| Free World and USSR Oil Production (Chart) | |
| Inland Oil Consumption (Chart) | |
| Net Oil Imports (Chart) | |
| World Crude Oil Production, Excluding Natural Gas Liquids | |
| Free World Crude Oil Production, Including Natural Gas Liquids | |
| World Natural Gas Liquid (NGL) Production | |
| OAPEC and OPEC Countries: Crude Oil Production | : |
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35 30 31.2 30.5







1Including natural gas liquids

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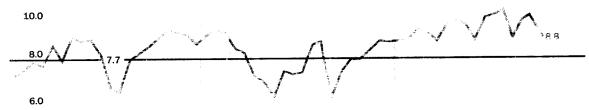
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Saudi Arabia

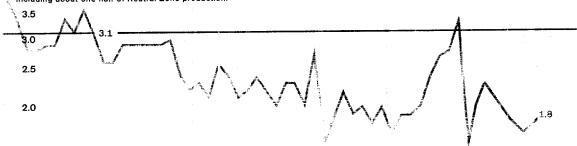
Semilogarithmic Scale

Including about one-half of Neutral Zone production.



Kuwait

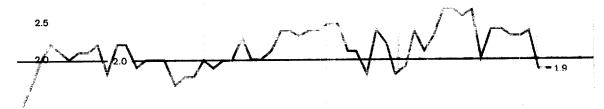
, Including about one-half of Neutral Zone production.



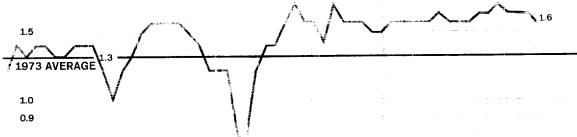
Libya



Iraq



Abu Dhabi

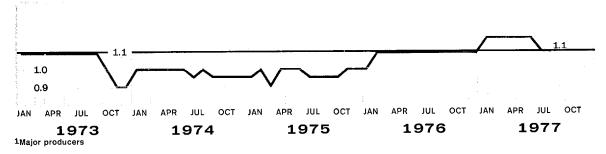


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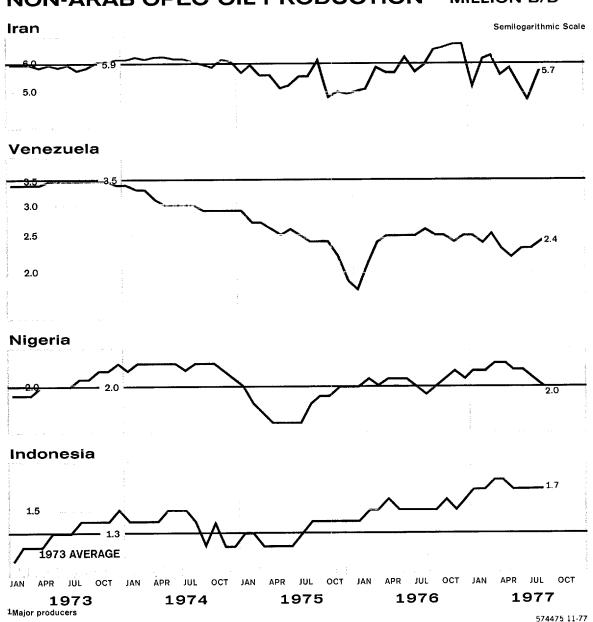
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1977

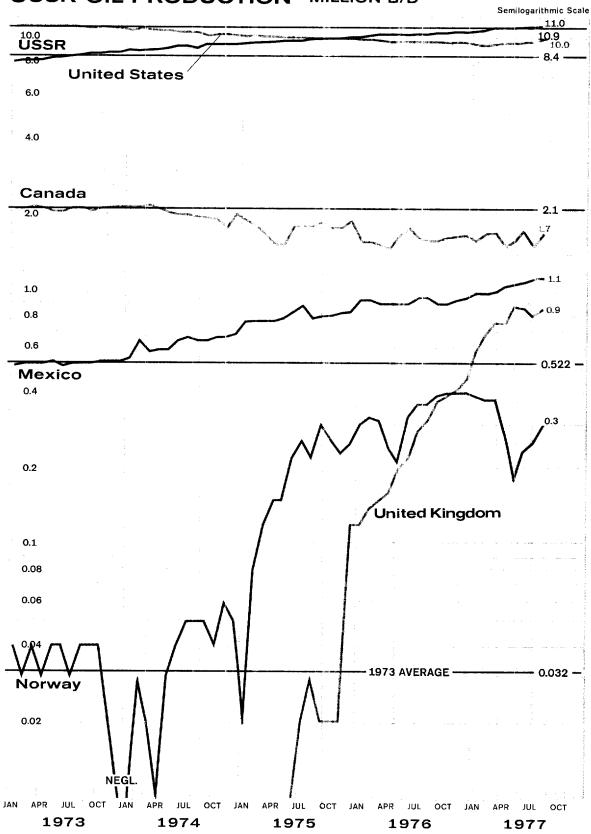


NON-ARAB OPEC OIL PRODUCTION 1 MILLION B/D

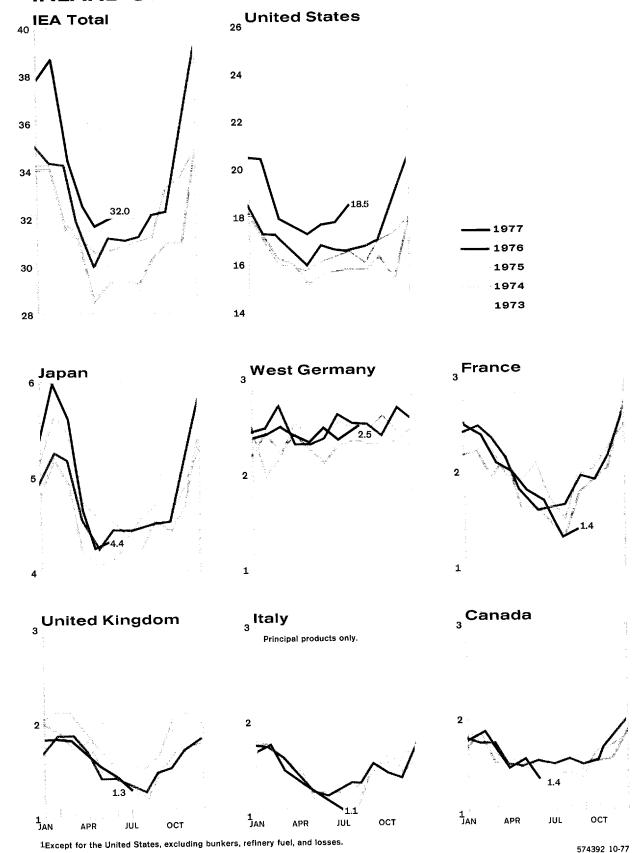


Approved For Release 2001/04/11 : CIA-RDP79B00457A001100010001-0 **FREE WORLD AND**

USSR OIL PRODUCTION MILLION B/D



INLAND OIL CONSUMPTION MILLION B/D

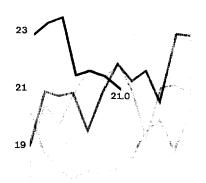


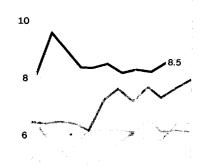
NET OIL IMPORTS MILLION B/D

Big Seven

United States

Bureau of the Mines data through Feb 1976, thereafter API.





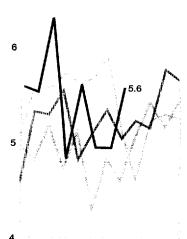


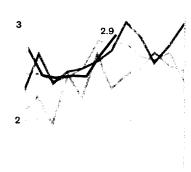
₇ Japan

17

West Germany

France



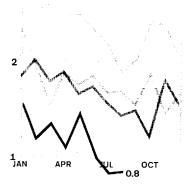


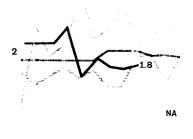


₃ United Kingdom

₃ Italy

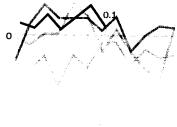
₁ Canada





JUL

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1 JAN

World Crude Oil Production, Excluding Natural Gas Liquids

Thousand b/d

| | | | | | | 1 | 1977 | | |
|-------------------------|--------------|--------|--------|--------|---------|--------|--------|---------|----------|
| | | | | | | | | Prelimi | nary |
| | 1973 | 1974 | 1975 | 1976 | 1st Qtr | 2d Qtr | Jul | Aug | Sep |
| World | 55,755 | 55,875 | 52,990 | 57,350 | 59,130 | 59,200 | 57,910 | 58,700 | |
| Free World | 45,850 | 45,145 | 41,470 | 45,110 | 46,520 | 46,400 | 45,000 | 45,750 | |
| Western hemisphere | 16,145 | 15,290 | 14,135 | 13,820 | 13,850 | 13,740 | 13,860 | 14,400 | |
| United States 1 | 9,210 | 8,770 | 8,370 | 8,120 | 7,960 | 8,040 | 8,190 | 8,460 | 8,650 |
| Venezuela | 3,365 | 2,975 | 2,345 | 2,290 | 2,350 | 2,170 | 2,200 | 2,280 | |
| Canada ² | 1,800 | 1,695 | 1,460 | 1,300 | 1,320 | 1,280 | 1,130 | 1,320 | 1,210 |
| Mexico ³ | 465 | 580 | 720 | 850 | 910 | 980 | 1,050 | 1,050 | |
| Argentina | 420 | 410 | 390 | 390 | 430 | 430 | 450 | 450 | |
| Ecuador | 210 | 175 | 160 | 190 | 200 | 170 | 150 | 190 | 140 |
| Other | 675 | 685 | 690 | 680 | 680 | 670 | 690 | 650 | |
| Eastern hemisphere | 29,705 | 29,855 | 27,335 | 31,290 | 32,670 | 32,660 | 31,140 | 31,350 | |
| Western Europe | 370 | 380 | 550 | 850 | 1,290 | 1,320 | 1,300 | 1,410 | |
| • | 30 | 35 | 190 | 280 | 340 | 200 | 220 | 270 | |
| Norway | Negl. | Negl. | 20 | 240 | 630 | 800 | 770 | 820 | |
| United Kingdom Other | Negi. 340 | 345 | 340 | 330 | 320 | 320 | 310 | 320 | |
| G 4444 | 21,215 | 21,855 | 19,590 | 22,180 | 22,300 | 22,140 | 21,110 | 21,020 | |
| Middle East | • | | 7,075 | 8,580 | 9,310 | 9,400 | 9,800 | 8,620 | 8,660 |
| Saudi Arabia 4 | 7,595 | 8,480 | • | 5,900 | 5,790 | 5,400 | 4,710 | 5,660 | 5,970 |
| Iran | 5,860 | 6,020 | 5,350 | , | 1,850 | 1,850 | 1,630 | 1,790 | 2,250 |
| Kuwait ⁴ | 3,020 | 2,545 | 2,085 | 2,150 | 2,230 | 2,330 | 1,900 | 1,900 | 2,100 |
| Iraq | 2,020 | 1,970 | 2,260 | 2,420 | , | • | 2,050 | 1,930 | 2,100 |
| United Arab Emirates | 1,535 | 1,680 | 1,665 | 1,940 | 2,010 | 2,070 | | 1,600 | 1.650 |
| Abu Dhabi | 1,305 | 1,410 | 1,370 | 1,590 | 1,660 | 1,720 | 1,720 | 310 | 1,000 |
| Dubai | 230 | 240 | 255 | 310 | 320 | 320 | 310 | | , |
| Sharjah | 0 | 30 | 40 | 40 | 40 | 30 | 20 | 20 | 340 |
| Qatar | 570 | 520 | 440 | 490 | 420 | 410 | 390 | 500 | 340 |
| Oman | 295 | 290 | 340 | 370 | 370 | 350 | 330 | 330 | |
| Syria | 100 | 120 | 185 | 200 | 200 | 190 | 180 | 180 | |
| Other | 220 | 230 | 190 | 130 | 120 | 120 | 120 | 110 | |
| Africa | 5,900 | 5,370 | 4,980 | 5,790 | 6,330 | 6,420 | 5,940 | 6,140 | |
| Nigeria | 2,055 | 2,255 | 1,785 | 2,070 | 2,220 | 2,240 | 2,060 | 2,020 | |
| Libya | 2,175 | 1,520 | 1,480 | 1,930 | 2,130 | 2,150 | 1,890 | 2,130 | |
| Algeria | 1,070 | 960 | 960 | 990 | 1,070 | 1,060 | 1,000 | 1,000 | |
| Gabon | 150 | 200 | 225 | 220 | 220 | 220 | 230 - | 230 | 230 |
| Egypt | 165 | 145 | 250 | 330 | 370 | 430 | 440 | 440 | |
| Angola/Cabinda | 160 | 170 | 140 | 110 | 170 | 160 | 160 | 160 | |
| Other | 125 | 120 | 140 | 140 | 150 | 160 | 160 | 160 | |
| Asia-Pacific | 2,220 | 2,250 | 2,215 | 2,470 | 2,750 | 2,780 | 2,790 | 2,780 | |
| Australia | 370 | 390 | 410 | 420 | 430 | 430 | 440 | 440 | |
| Indonesia | 1,340 | 1,375 | 1,305 | 1,500 | 1,690 | 1,700 | 1,690 | 1,680 | 1,670 |
| Malaysia-Brunei | 320 | 290 | 300 | 330 | 380 | 400 | 410 | 410 | |
| Other | 190 | 195 | 200 | 220 | 250 | 250 | 250 | 250 | |
| Communist Countries | 9,905 | 10,730 | 11,520 | 12,240 | 12,610 | 12,800 | 12,910 | 12,950 | |
| USSR | 8,420 | 9,020 | 9,630 | 10,170 | 10,510 | 10,660 | 10,740 | 10,780 | |
| China | 1,090 | 1,310 | 1,490 | 1,670 | 1,700 | 1,740 | 1,770 | 1,770 | |
| Romania | 285 | 290 | 290 | 290 | 290 | 290 | 290 | 290 | ******** |
| Other | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | |

¹ Natural gas liquids amounted to an estimated 1.6 million b/d in Sep.

² Natural gas liquids amounted to an estimated 340,000 b/d in Sep.

^a Natural gas liquids amounted to an estimated 95,000 b/d in Aug.

Including about one-half of Neutral Zone crude oil production, which amounted to about 320,000 b/d in Sep.

Approved For Release 2001/04/11: CIA-RDP79B00457A001100010001-0 World Crude Oil Production, Including Natural Gas Liquids

Thousand b/d

| | | | | | | | | 1110 | usano by |
|----------------------|--------|--------|--------|--------|---------|--------|--------|--------|----------|
| | | | | | | | 1977 | | |
| | 1973 | 1974 | 1975 | 1976 | 1st Qtr | 2d Qtr | Jul | Aug | Sep |
| Free World 1 | 48,975 | 48,565 | 44,970 | 48,940 | 50,240 | 50,120 | 48,720 | 49,480 | |
| Non-OPEC Producers 1 | 17,665 | 17,505 | 17,425 | 17,755 | 18,170 | 18,350 | 18,440 | 18,970 | |
| United States | 10,950 | 10,460 | 10,000 | 9,725 | 9,540 | 9,620 | 9,770 | 10,040 | 10,230 |
| Canada | 2,120 | 2,005 | 1,770 | 1,620 | 1,660 | 1,620 | 1,470 | 1,660 | 1,550 |
| United Kingdom | Negl. | Negl. | 25 | 280 | 680 | 850 | 820 | 870 | _, |
| Norway | 30 | 35 | 195 | 300 | 375 | 235 | 255 | 305 | |
| Mexico | 535 | 660 | 800 | 935 | 1,005 | 1,075 | 1,145 | 1.145 | |
| Other ² | 3,530 | 3,545 | 3,735 | 3,795 | 4,010 | 4,050 | 4,080 | 4,050 | |
| OPEC | 31,310 | 31,060 | 27,545 | 31,185 | 32,070 | 31,770 | 30,280 | 30.510 | |
| Saudi Arabia ³ | 7,685 | 8,610 | 7,215 | 8,765 | 9,510 | 9,600 | 10,000 | 8,820 | 8,860 |
| Kuwait ³ | 3,080 | 2,595 | 2,135 | 2,205 | 1,910 | 1,910 | 1,690 | 1,850 | 2,310 |
| Libya | 2,210 | 1,540 | 1,510 | 1,965 | 2,165 | 2,185 | 1,925 | 2,165 | _, |
| Iraq | 2,020 | 1,970 | 2,260 | 2,420 | 2,235 | 2,335 | 1,905 | 1,905 | 2,105 |
| UAE | 1,535 | 1,680 | 1,665 | 1,940 | 2,020 | 2,080 | 2,060 | 1,940 | _, |
| Abu Dhabi | 1,305 | 1,410 | 1,370 | 1,590 | 1,670 | 1,730 | 1,730 | 1,610 | 1,660 |
| Dubai | 230 | 240 | 255 | 310 | 310 | 320 | 310 | 310 | -, |
| Sharjah | 0 | 30 | 40 | 40 | 40 | 30 | 20 | 20 | |
| Algeria | 1,100 | 1,010 | 1,020 | 1,080 | 1,170 | 1,160 | 1,100 | 1,100 | |
| Qatar | 570 | 525 | 450 | 500 | 430 | 420 | 400 | 510 | 350 |
| Iran | 5,900 | 6,065 | 5,395 | 5,945 | 5,840 | 5,470 | 4,760 | 5,710 | 6,020 |
| Venezuela | 3,455 | 3,060 | 2,420 | 2,365 | 2,430 | 2,250 | 2,280 | 2,360 | -, |
| Nigeria | 2,055 | 2,255 | 1,785 | 2,070 | 2,220 | 2,240 | 2,060 | 2,020 | |
| Indonesia | 1,340 | 1,375 | 1,305 | 1,520 | 1,720 | 1,730 | 1,720 | 1,710 | |
| Gabon | 150 | 200 | 225 | 220 | 220 | 220 | 230 | 230 | 230 |
| Ecuador | 210 | 175 | 160 | 190 | 200 | 170 | 150 | 190 | 140 |

¹ Free World and Non-OPEC Producers totals include net Communist imports of about 500,000 b/d in 1973, 800,000 b/d in 1974, 900,000 b/d in 1975, 1,100,000 b/d in 1976, and 900,000 b/d in 1977.

World Natural Gas Liquids (NGL) Production (

| | | | | | | | | | | Thousa | ınd b/d |
|--------------------|-------|-------|-------|-------|-------|---------------------|------|------|------|--------|---------|
| | 1973 | 1974 | 1975 | 1976 | 1977 | | 1973 | 1974 | 1975 | 1976 | 1977 |
| World | 2,845 | 2,860 | 2,855 | 2,995 | 3,095 | Middle East | 190 | 230 | 245 | 295 | 335 |
| Free World | 2,625 | 2,620 | 2,600 | 2,730 | 2,820 | Saudi Arabia | 90 | 130 | 140 | 185 | 200 |
| OPEC | 345 | 385 | 410 | 515 | 580 | Iran | 40 | 45 | 45 | 45 | 50 |
| Non-OPEC | 2,280 | 2,235 | 2,190 | 2,215 | 2,240 | Kuwait | 60 | 50 | 50 | 55 | 60 |
| Western Hemisphere | 2,275 | 2,220 | 2,150 | 2,140 | 2,150 | Oatar | 0 | 5 | 10 | 10 | 10 |
| United States | 1,740 | 1,690 | 1,630 | 1,605 | 1,580 | Abu Dhabi | 0 | 0 | 0 | 0 | 10 |
| Venezuela | 90 | 85 | 75 | 75 | 80 | Iraq | 0 | ő | ő | Ô | 5 |
| Canada | 320 | 310 | 310 | 320 | 340 | Africa | 65 | 70 | 90 | 125 | 135 |
| Mexico | 70 | 80 | 80 | 85 | 95 | Libya | 35 | 20 | 30 | 35 | 35 |
| Other | 55 | 55 | 55 | 55 | 55 | Algeria | 30 | 50 | 60 | 90 | 100 |
| Eastern Hemisphere | 350 | 400 | 450 | 590 | 670 | Asia-Pacific | 60 | 65 | 70 | 95 | 110 |
| Western Europe | 35 | 35 | 45 | 95 | 120 | Australia | 50 | 50 | 50 | 55 | 60 |
| Norway | 0 | 0 | 5 | 20 | 35 | Indonesia | 0 | 0 | 0 | 20 | 30 |
| United Kingdom | 0 | 0 | 15 | 40 | 50 | Other | 10 | 15 | 20 | 20 | 20 |
| Other | 35 | 35 | 35 | 35 | 35 | Communist Countries | 220 | 240 | 255 | 265 | 275 |
| | | | | | | USSR | 210 | 230 | 240 | 250 | 260 |
| | | | | | | China | N.A. | N.A. | N.A. | N.A. | N.A. |
| | | | | | | Other | 10 | 10 | 15 | 15 | 15 |

¹ Estimated.

² Including Bahrain, Egypt, and Syria.

³ Including about one-half of Neutral Zone production.

OAPEC 1 and OPEC 2 Countries: Crude Oil Production

Thousand b/d

| | | | | | | | 1977 | |
|-------------------------------------|--------|------------|--------|--------|---------|--------|--------|-------------|
| | | | | | | | | Preliminary |
| | 1973 | 1974 | 1975 | 1976 | 1st Qtr | 2d Qtr | Jul | Aug |
| Total OAPEC (thousand b/d) | 18,090 | 17,735 | 16,165 | 18,740 | 19,300 | 19,600 | 19,010 | 18,210 |
| % change from Sep 1973 3 | | -11 | -19 | -6 | -4 | -2 | -5 | -9 |
| % change from Dec 1976 4 | | | | | -8 | -7 | -10 | -14 |
| Total OPEC (thousand b/d) | 30,965 | 30,675 | 27,135 | 30,670 | 31,490 | 31,190 | 29,700 | 29,930 |
| % change from Sep 1973 ³ | | - 7 | -18 | -7 | -4 | -5 | -10 | -9 |
| % change from Dec 1976 4 | | | | | -8 | -8 | -13 | -12 |

¹ The members of the Organization of Arab Petroleum Exporting Countries are Abu Dhabi, Algeria, Bahrain, Egypt, Iraq, Kuwait, Libya, Qatar, Saudi Arabia, and Syria.

OAPEC and OPEC Countries: Crude Oil Production Capacity

Thousand b/d

| | Estimated D. J. et | of Pro | tilization oductive acity |
|---------------------------|---|--------|---------------------------------|
| | Estimated Productive – Capacity ¹ | July | Aug |
| Saudi Arabia ² | 10,500 | 700 | 1,880 |
| Kuwait ² | 3,500 | 1,870 | 1,710 |
| Libya | 2,500 | 610 | 370 |
| Iraq | 3,000 | 1,100 | 1,100 |
| Abu Dhabi | 2,000 | 280 | 400 |
| Algeria | 1,080 | 80 | 80 |
| Qatar | 700 | 310 | 200 |
| Egypt | 450 | 10 | 10 |
| Syria | 200 | 20 | 20 |
| Bahrain | 60 | 0 | 10 |
| Total OAPEC | 23,990 | 4,980 | 5,780 |
| Iran | 6,700 | 1,990 | 1,040 |
| Venezuela | 2,600 | 400 | 320 |
| Nigeria | 2,300 | 240 | 280 |
| Indonesia | 1,800 | 110 | 120 |
| Dubai | 340 | 30 | 30 |
| Gabon | 250 | 20 | 20 |
| Ecuador | 225 | 35 | 35 |
| Sharjah | 50 | 30 | 30 |
| Total OPEC 3 | 37,545 | 7,845 | 7,615 |

¹ Estimated at maximum efficient rate (MER) of production. In some cases output can exceed the MER for short periods of time without damaging the fields.

² The membership of the Organization of Petroleum Exporting Countries consists of OAPEC members (excluding Bahrain, Egypt, and Syria), plus Dubai, Ecuador, Gabon, Indonesia, Iran, Nigeria, Sharjah, and Venezuela.

³ In Sep 1973, the pre-crisis level of output, OAPEC countries produced 20,038 b/d and OPEC countries 32,956 b/d.

In Dec 1976, the post-crisis peak of output, OAPEC countries produced 21,060 b/d and OPEC countries 34,070 b/d.

² Including about one-half of Neutral Zone capacity production.

³ OAPEC members (excluding Bahrain, Egypt, and Syria), plus the other countries shown.

A Note on Petroleum Reserves

Any estimate of oil and natural gas reserves must be treated as rough approximation. Few countries publish official reserve estimates, and there is no consistent rigorous definition of reserves. Moreover, the volume of oil and/or gas in place, even in a well-delineated field, can never be precisely accurate; estimates of commercially recoverable oil and natural gas are usually made not by reference to existing technology but by reference to the production system currently in use, and even this can provide only an approximation. Assessments of proved reserves therefore do not mean absolute world availability; they are only an indication of the quantity of oil that is technically and economically feasible to extract with current techniques at current prices.

CIA's reserve figures are for proved and probable reserves and are based on the best available published information and on our own judgemental analysis in cases where we have unique information. CIA uses the restrictive definition of probable reserves (as differentiated from possible reserves) common in the industry. Our proved and probable figure does not differ greatly from the proved figure in many cases, such as Venezuela, Iran, and Libya. In these countries, extensive exploration has taken place and extentions of known fields are considered unlikely. In other cases—such as Saudi Arabia, Mexico, and the United Kingdom—differences between proved and probable reserves are considerably larger.

Estimated Proved and Probable Petroleum Reserves

| Area and Country | Crude Oil Billion Barrels | Natural Gas Trillion Cubic Feet | Area and Country | Crude Oil Billion Barrels | Natural Gas Trillion Cubic Feet |
|----------------------|---------------------------------|--|---------------------|---------------------------------|--|
| World | 665 | 2,626 1 | Africa | 59 | 211 |
| Free World | 600 | 1,764 | Libya | 25 | 25 |
| Western Hemisphere | 96 | 426 | Nigeria | 19 | 46 |
| United States 2 | 39 | 219 | Algeria | 7 | 127 |
| Mexico | 25 | 43 | Egypt | 4 | 3 |
| Venezuela | 14 | 43 | Gabon | 1 | Negl. |
| Canada ² | 8 | 71 | Angola-Cabinda | 1 | Negl. |
| Ecuador | 2 | 11 | Tunisia | 1 | 7 |
| Argentina | 2 | 11 | Other | 1 | 3 |
| Brazil | 1 | 7 | Western Europe | 31 | 177 |
| Colombia | 1 | 7 | United Kingdom | 20 | 46 |
| Peru | 2 | 7 | Norway | 8 | 25 |
| Trinidad and Tobago | 2 | 7 | Netherlands | Negl. | 71 |
| Eastern Hemisphere | 504 | 1,338 | Spain | 1 | Negl. |
| Middle East | 392 | 845 | Other | 2 | 35 |
| Saudi Arabia | 158 | 106 | Asia-Pacific | 22 | 105 |
| Kuwait | 71 | 35 | Indonesia | 14 | 21 |
| Iran ³ | 60 | 600 | Brunei | 2 | 11 |
| Iraq | 36 | 35 | Malaysia | 2 | 14 |
| United Arab Emirates | 34 | 35 | Australia | 2 | 35 |
| Neutral Zone | 17 | 7 | India | 2 | 3 |
| Oatar | 7 | 18 | Pakistan | Negl. | 21 |
| Oman | 6 | 3 | Communist Countries | 65 | 862 |
| Syria | 2 | 3 | USSR | 40 | 812 |
| Other | 1 | 3 | China | 20 | 25 |
| | | | Other | 5 | 25 |

¹ Equivalent to 470 billion barrels of oil.

² Including Arctic gas deposits and natural gas liquids.

³ Including recent discoveries.

Estimated Imports of Crude Oil and Refined Products
1976

| | | | | _ | 1976 | | | | | | Thou | sand b/d |
|-------------------------|----------|-------|--------|-------------------|----------------------|--------|-------|-------|------------------|-----------------------------|-------|----------------------------|
| | US 1 | Japan | Canada | Western Europe | West Ger- many | France | UK | Italy | Nether- lands | Belgium/ Luxem- bourg | Spain | Other Western Europe |
| Almonio | 437 | 2 | 14 | 430 | 213 | 94 | 19 | 70 | 3 | 3 | 28 | 0 |
| Algeria | 3 | 32 | 0 | 8 | 1 | 0 | 6 | 0 | 1 | 0 | 0 | 0 |
| Bahrain | 17 | 1 | 2 | 34 | 1 | .13 | 8 | 0 | 11 | 1 | 0 | 0 |
| Egypt | 38 | 128 | 33 | 1,171 | 35 | 327 | 105 | 318 | 34 | 1 | 87 | 264 |
| Iraq | 9 | 450 | 6 | 674 | 38 | 86 | 229 | 13 | 111 | 8 | 58 | 131 |
| Kuwait | 532 | 41 | 25 | 1,150 | 424 | 63 | 57 | 237 | 12 | 0 | 89 | 268 |
| Libya | 69 | 6 | 0 | 293 | 24 | 58 | 94 | 22 | 50 | 0 | 0 | 45 |
| Qatar | 1,371 | 1.719 | 122 | 3,262 | 379 | 877 | 370 | 516 | 354 | 293 | 376 | 97 |
| Saudi Arabia | 1,071 | 0 | 0 | 107 | 23 | 53 | 3 | 0 | 0 | 28 | 0 | 0 |
| Syria | 319 | 530 | 16 | 813 | 138 | 234 | 74 | 20 | 115 | 26 | 0 | 206 |
| UAE Total OAPEC | 2,796 | 2,909 | 218 | 7,942 | 1,276 | 1,805 | 965 | 1,196 | 691 | 360 | 638 | 1,011 |
| Ecuador | 63 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Gabon | 46 | 0 | 12 | 65 | 11 | 29 | 1 | 0 | 3 | 0 | 21 | 0 |
| Indonesia | 573 | 613 | 0 | 6 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| | 548 | 974 | 162 | 2,341 | 383 | 291 | 399 | 290 | 327 | 73 | 179 | 399 |
| Iran | 1,124 | 17 | 36 | 699 | 181 | 155 | 76 | 16 | 195 | 30 | 0 | 46 |
| Nigeria Venezuela | 985 | 6 | 302 | 226 | 38 | 36 | 41 | 26 | 11 | 3 | 23 | 48 |
| Total OPEC ^a | 6,114 | 4,486 | 730 | 11,130 | 1,867 | 2,250 | 1,465 | 1,528 | 1,215 | 437 | 861 | 1,507 |
| Canada | 599 | 0 | 0 | 0 | 0 | 0 | Ó | . 0 | 0 | 0 | 0 | 0 |
| Mexico | 91 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | Ò | 0 | 0 | 0 |
| | 470 | 716 | 24 | 2,362 8 | 917 | 282 | 570 | 740 | 208 | 288 | 123 | 1,766 |
| Other Total | 7,295 | 5,235 | | 13,641 | 2,809 | 2,598 | 2,052 | 2,268 | 1,435 | 754 | 984 | 2,273 |

¹ Products traced to source of crude oil.

² OAPEC members excluding Bahrain, Egypt, and Syria plus other countries shown.

³ Because of intra-European trade, components do not add to the totals shown.

⁴ Other and unknown.

Selected Developed Countries: Crude Oil Imports, by Source

| | | | | Thousand | b/d | | | | |
|------------------------|-------------------|-------|-------------|-----------|---------------------|----------------------------|---------------------|--------------|---------------------|
| | Sep 1973 (Pre- | | | | | 1977 | | Percent o | of Total |
| | Crisis Level) | 1974 | 1975 | 1976 | 1st Qtr | Apr | May | Sep 1973 | May 1977 |
| United States | | | | | | | | | |
| Algeria | 124 | 180 | 264 | 408 | 527 | 654 | 0.01 | 0.0 | |
| Egypt | 0 | 9 | 5 | 17 | 12 | 16 | 381 | 3.6 | 5.6 |
| Iraq | 17 | 0 | 2 | 26 | 28 | 16 52 | 82 | 0 | 1.2 |
| Kuwait | 44 | 5 | 4 | 1 | 64 | 52 67 | 168 | 0.5 | 2.5 |
| Libya | 153 | 4 | 223 | 444 | 641 | 776 | 51 740 | 1.3 | 0.7 |
| Qatar | 41 | 17 | 18 | 24 | 39 | 34 | 749 | 4.4 | 11.0 |
| Saudi Arabia | 599 | 438 | 701 | 1,222 | 1,371 | | 94 | 1.2 | 1.4 |
| United Arab Emirates 1 | 88 | 69 | 117 | 255 | 336 | 1,429 | 1,716 | 17.3 | 25.2 |
| Other ² | 0 | 0 | 0 | 200 | | 324 | 237 | 2.5 | 3.5 |
| Total OAPEC | 1,066 | 722 | 1,334 | 2,397 | 3,024 | 0 | 0.470 | 0 | 0 |
| Ecuador | 33 | 42 | 57 | 51 | 51 | 3,352 53 | 3,478 | 30.7 | 51.0 |
| Gabon | 0 | 23 | 27 | 26 | 37 | 26 | 77 | 0.9 | 1.1 |
| Indonesia | 249 | 284 | 379 | 536 | 565 | 20 474 | 42 | 0 | 0.6 |
| Iran | 205 | 463 | 278 | 298 | 518 | 474 517 | 480 | 7.2 | 7.0 |
| Nigeria | 409 | 697 | 746 | 1,014 | 1.278 | | 535 | 5.9 | 7.8 |
| Venezuela | 405 | 319 | 395 | 241 | 1,278 | 1,238 285 | 1,060 | 11.8 | 15.5 |
| Total OPEC 3 | 2,367 | 2,541 | 3,211 | 4,546 | 5,628 | | 251 | 11.7 | 3.7 |
| Canada | 998 | 791 | 600 | 371 | 282 | 5,929 | 5,841 | 68.2 | 85.6 |
| Mexico | 8 | 2 | 70 | 87 | | 313 | 248 | 28.8 | 3.6 |
| UK | 0 | 0 | | 13 | 144 | 145 | 174 | 0.2 | 2.6 |
| Norway | 0 | 1 | Negl. 12 | 15 35 | 86 | 35 | 50 | 0 | 0.7 |
| Other | 98 | 133 | 207 | 35 218 | 54 | 0 | 59 | 0 | 0.9 |
| Total | 3,471 | 3,477 | 4,105 | 5,287 | 308 6,520 | 347 6,785 | 367 6,821 | 2.8 100.0 | 5.4 100.0 |

| | | | Thous | and b/d | | | | | |
|----------------------|-------------------|------|-------|---------|------------|-----------|-----|-------------|---------------|
| | Sep 1973 (Pre- | | | | | 1977 | | Percent of | Total |
| | Crisis Level) | 1974 | 1975 | 1976 | lst Qtr | 2d Qtr | Jul | Sep 1973 | Jul 1977 |
| Canada | | | | | | | | | |
| Algeria | 0 | 12 | Negl. | 0 | 0 | 0 | 0 | 0 | 0 |
| Egypt | 0 | 0 | 0 | Ö | 0 | 0 | 0 | 0 | 0 |
| Iraq | 23 | 10 | 31 | 29 | ι7 | 6 | 36 | 2.4 | 0 5.9 |
| Kuwait | 0 | 25 | 29 | 2 | 0 | 0 | 0 | 0 | 0 |
| Libya | 56 | 9 | 9 | 20 | 0 | 0 | 0 | 6.0 | 0 |
| Qatar | 0 | 0 | 2 | 0 | ő | 0 | 0 | 0.0 | 0 |
| Saudi Arabia | 82 | 91 | 165 | 109 | 188 | 168 | 145 | 8.7 | 23.6 |
| United Arab Emirates | 49 | 24 | 46 | 57 | 4 | 11 | 140 | 5.2 | 23.6 0.2 |
| Other ² | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.2 | 0.2 |
| Total OAPEC | 210 | 171 | 282 | 217 | 209 | 185 | 182 | 22.3 | 29.6 |
| Ecuador | 13 | 6 | 1 | 0 | 0 | 0 | 0 | 1.4 | |
| Gabon | 0 | 0 | 3 | Ö | 0 | 0 | 0 | 0 | 0 |
| Indonesia | 0 | 0 | 0 | 0 | 0 | ő | 0 | 0 | 0 |
| Iran | 149 | 199 | 202 | 157 | 145 | 126 | 94 | 15.9 | 15.3 |
| Nigeria | 39 | 14 | 17 | 28 | 11 | 7 | 0 | 4.1 | 15.3 |
| Venezuela | 485 | 351 | 265 | 269 | 263 | 262 | 215 | 51.6 | _ |
| Total OPEC 3 | 896 | 741 | 770 | 671 | 628 | 580 | 491 | 95.3 | 35.0 |
| Other | 44 | 79 | 54 | 49 | 83 | 109 | 123 | 95.3 4.7 | 80.0 |
| Total | 940 | 820 | 824 | 720 | 711 | 689 | 614 | 100.0 | 20.0 100.0 |

Selected Developed Countries: Crude Oil Imports, by Source (Continued)

| | | | | Thousand | b/d | | | | | |
|------------------------|-------------------|-------|-------|----------|------------|-----------|-------|---------------|---------------------|---------------------|
| | Sep 1973 (Pre- | | | | | 19 |)77 | | Percent | of Total |
| | Crisis Level) | 1974 | 1975 | 1976 | 1st Qtr | 2d Qtr | Jul | Aug | Sep 1973 | Aug 1977 |
| Japan | | | | | | | | | | |
| Algeria | 0 | 5 | 6 | 0 | 0 | 4 | 0 | 11 | 0 | 0.2 |
| Egypt | 0 | 2 | 0 | Negl. | 0 | 0 | ő | 0 | 0 | 0.2 |
| Iraq | 0 | 40 | 92 | 127 | 162 | 162 | 318 | 132 | 0 | 0 2.7 |
| Kuwait | 488 | 479 | 416 | 342 | 350 | 399 | 255 | 403 | 10.0 | 2. 7 8.2 |
| Libya | 31 | 70 | 59 | 41 | 11 | 35 | 13 | 21 | 0.6 | 0.4 |
| Qatar | 0 | 6 | 3 | 2 | 28 | 21 | 0 | 51 | 0.0 | |
| Saudi Arabia | 1,148 | 1,304 | 1,355 | 1,572 | 1,846 | 1,429 | 1,445 | 1,723 | 23.5 | 1.0 34.9 |
| United Arab Emirates 1 | 511 | 533 | 408 | 530 | 586 | 494 | 486 | 579 | 10.5 | 34.9 11.7 |
| Other ² | 0 | 0 | 0 | 0 | 0 | 0 | 100 | 0 | 0 | 0 |
| Total OAPEC | 2,181 | 2,439 | 2,339 | 2,614 | 2,983 | 2,544 | 2,517 | 2,920 | 44.7 | 59.1 |
| Ecuador | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2,520 | 0 | |
| Gabon | 0 | 0 | 0 | Õ | ő | Ö | 0 | 0 | 0 | 0 |
| Indonesia | 638 | 671 | 518 | 553 | 669 | 665 | 628 | 706 | 13.1 | 0 |
| Iran | 1,554 | 1,222 | 1,147 | 928 | 957 | 771 | 666 | 824 | 31.9 | 14.3 |
| Nigeria | 101 | 87 | 71 | 17 | 0 | 0 | 000 | 024 | | 16.7 |
| Venezuela | 7 | 9 | 5 | 6 | 7 | 7 | 7 | 0 | 2.1 | 0 |
| Total OPEC 3 | 4,481 | 4,426 | 4,080 | 4,118 | 4,616 | 3,987 | 3,818 | 4,450 | 0.1 | 0 |
| Other | 397 | 370 | 459 | 483 | 568 | 485 | 580 | 4,450 490 | 91.9 | 90.1 |
| Total | 4,878 | 4,798 | 4,539 | 4,601 | 5,184 | 4,472 | 4,398 | 4,9 40 | 8.1 100.0 | 9.9 100.0 |

| Thousand | Ь | /d |
|----------|---|----|
|----------|---|----|

| | Sep 1973 (Pre- | | | | | 19 | 077 | | Percent | of Total |
|--------------------|-------------------|-------|-------|-------|------------|------------|-------|-------|-------------|-------------|
| | Crisis Level) | 1974 | 1975 | 1976 | 1st Qtr | 2nd Qtr | Jul | Aug | Sep 1973 | Aug 1977 |
| United Kingdom | | | | | | | | | | |
| Abu Dhabi | 28 | 86 | 47 | 29 | 35 | 44 | 45 | 41 | 1.5 | 0.0 |
| Algeria | 46 | 10 | 29 | 18 | 14 | 8 | 12 | 12 | 2.4 | 3.2 |
| Egypt | 0 | 5 | 16 | 3 | 0 | 11 | 37 | 0 | 0 | 1.0 0 |
| Iraq | 67 | 64 | 52 | 105 | 114 | 110 | 50 | 80 | 3.5 | - |
| Kuwait | 293 | 343 | 218 | 229 | 181 | 217 | 183 | 147 | 15.3 | 6.3 11.6 |
| Libya | 98 | 175 | 53 | 45 | 20 | 50 | 62 | 32 | 5.1 | |
| Qatar | 73 | 96 | 77 | 94 | 78 | 24 | 34 | 20 | 3.8 | 2.5 1.6 |
| Saudi Arabia | 530 | 712 | 444 | 370 | 405 | 457 | 361 | 275 | 27.6 | 21.8 |
| Other ² | 0 | 0 | 16 | 3 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total OAPEC | 1,135 | 1,491 | 952 | 896 | 847 | 921 | 784 | 607 | 59.2 | 48.1 |
| Dubai | 48 | 26 | 30 | 45 | 36 | 36 | 14 | 74 | 2.5 | 40.1 5.9 |
| Ecuador | 0 | 0 | 0° | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Gabon | 0 | 14 | 0 | 0 | o | 0 | ő | 0 | 0 | 0 |
| Indonesia | 0 | 0 | 0 | 0 | 0 | ő | 0 | 0 | 0 | 0 |
| Iran | 317 | 290 | 351 | 398 | 414 | 269 | 145 | 243 | 16.5 | 19.2 |
| Nigeria | 188 | 158 | 117 | 76 | 70 | 13 | 16 | 18 | 9.8 | 19.2 |
| Sharjah | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Venezuela | 66 | 66 | 64 | 29 | 16 | 22 | 18 | 33 | 3.4 | 2.6 |
| Total OPEC 3 | 1,754 | 2,040 | 1,482 | 1,438 | 1,383 | 1,250 | 940 | 975 | 91.5 | 77.2 |
| Other | 163 | 226 | 261 | 326 | 263 | 240 | 170 | 288 | 8.5 | 22.8 |
| Total | 1,917 | 2,271 | 1,775 | 1,770 | 1,646 | 1,501 | 1,147 | 1,263 | 100.0 | 100.0 |

Selected Developed Countries: Crude Oil Imports, by Source (Continued)

| | Sep 1973 (Pre- | | | | | 1977 | | Percent | of Total |
|------------------------|-------------------|-------|-------------|-------|------------|------------|-------|-------------|--------------|
| | Crisis Level) | 1974 | 1975 | 1976 | 1st Qtr | 2d Qtr | Jul | Sep 1973 | Jul 1977 |
| West Germany | | | | | 225 | 104 | 01″ | 10.4 | 10.5 |
| Algeria | 239 | 201 | 204 | 210 | 227 | 164 | 215 | 10.4 | |
| Egypt | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 |
| Iraq | 43 | 73 | 28 | 35 | 31 | 21 | 0 | 1.9 | 0 |
| Kuwait | 102 | 82 | 54 | 25 | 24 | 16 | 0 | 4.4 | 0 |
| Libya | 418 | 320 | 296 | 421 | 470 | 354 | 408 | 18.2 | 20.0 |
| Qatar | 18 | 20 | 25 | 24 | 13 | 24 | 0 | 0.8 | 0 |
| Saudi Arabia | 710 | 514 | 37 1 | 378 | 376 | 404 | 545 | 30.9 | 26.7 |
| United Arab Emirates 1 | 162 | 169 | 158 | 125 | 155 | 156 | 140 | 7.1 | 6.9 |
| Other ² | 26 | 19 | 16 | 25 | 22 | 25 | 26 | 1.1 | 1.3 |
| Total OAPEC | 1,718 | 1,398 | 1,156 | 1,243 | 1,318 | 1,164 | 1,334 | 74.8 | 65. 3 |
| Ecuador | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Gabon | 3 2 | 19 | 21 | 11 | 7 | 10 | 0 | 1.4 | 0 |
| Indonesia | 0 | 0 | 0 | 4 | 2 5 | 8 | 1 | 0 | Negl. |
| Iran | 248 | 265 | 284 | 380 | 338 | 319 | 288 | 10.8 | 14.1 |
| Nigeria | 168 | 241 | 202 | 181 | 162 | 177 | 227 | 7.3 | 11.1 |
| Venezuela | 42 | 38 | 43 | 28 | 16 | 18 | 31 | 1.8 | 1.5 |
| Total OPEC 3 | 2,182 | 1,942 | 1,686 | 1,822 | 1,844 | 1,671 | 1,855 | 95.0 | 90.8 |
| UK | 0 | 0 | 0 | 14 | 52 | 66 | 51 | 0 | 2.5 |
| Norway | Negl. | 3 | 12 | 23 | 38 | 12 | 27 | 0 | 1.3 |
| Other | 89 | 86 | 89 | 95 | 62 | 81 | 83 | 3.9 | 4.1 |
| Total | 2,297 | 2,050 | 1,807 | 1,979 | 2,018 | 1,855 | 2,042 | 100.0 | 100.0 |

| | | Thousand b/d | | | | | | | | | | | | |
|---------------------|---------------------------|--------------|------|------|------------|-----------|-----|-----|-------------|-------------|--|--|--|--|
| | Sep 1973 | - | | | | 197 | 7 | | Percent | of Total | | | | |
| | (Pre- Crisis Level) | 1974 | 1975 | 1976 | 1st Qtr | 2d Qtr | Jul | Aug | Sep 1973 | Aug 1977 | | | | |
| France Abu Dhabi | 249 | 268 | 210 | 202 | 186 | 214 | 158 | 147 | 9.0 | 6.2 | | | | |
| | 243 | 181 | 118 | 95 | 99 | 92 | 81 | 107 | 8.2 | 4.5 | | | | |
| Algeria | 1 | 0 | 4 | 13 | 11 | 8 | 0 | 0 | Negl. | 0 | | | | |
| Egypt | 2 | 000 | 240 | 005 | 270 | 274 | 436 | 447 | 13.6 | 18.9 | | | | |

| | · | | | | | | | | | |
|--------------------|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| France | | | | | | | | | 0.0 | 6.0 |
| Abu Dhabi | 249 | 268 | 210 | 202 | 186 | 214 | 158 | 147 | 9.0 | 6.2 |
| Algeria | 227 | 181 | 118 | 95 | 99 | 92 | 81 | 107 | 8.2 | 4.5 |
| Egypt | 1 | 0 | 4 | 13 | 11 | 8 | 0 | 0 | Negl. | 0 |
| Iraq | 375 | 330 | 240 | 335 | 379 | 274 | 436 | 447 | 13.6 | 18.9 |
| Kuwait | 316 | 246 | 134 | 86 | 103 | 57 | 84 | 59 | 11.4 | 2.5 |
| Libya | 131 | 74 | 44 | 62 | 38 | 42 | 74 | 46 | 4.7 | 1.9 |
| Qatar | 69 | 70 | 47 | 58 | 84 | 35 | 59 | 60 | 2.5 | 2.5 |
| Saudi Arabia | 623 | 842 | 669 | 870 | 832 | 813 | 834 | 987 | 22.5 | 41.8 |
| Other ² | 12 | 10 | 41 | 60 | 49 | 60 | 60 | 18 | 0.4 | 0.8 |
| Total OAPEC | 2,003 | 2,021 | 1,507 | 1,781 | 1,781 | 1,595 | 1,786 | 1,871 | 72.5 | 79.3 |
| Dubai | 27 | 36 | 43 | 33 | 52 | 31 | 41 | 62 | 1.0 | 2.6 |
| Ecuador | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Gabon | 33 | 43 | 27 | 29 | 53 | 44 | 42 | 36 | 1.2 | 1.5 |
| Indonesia | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Iran | 216 | 174 | 266 | 294 | 336 | 197 | 102 | 85 | 7.8 | 3.6 |
| Nigeria | 253 | 208 | 175 | 150 | 127 | 160 | 168 | 150 | 9.2 | 6.4 |
| Sharjah | 0 | 0 | 0 | () | 0 | 0 | 0 | 0 | 0 | 0 |
| Venezuela | 36 | 28 | 15 | 16 | 10 | 14 | 17 | 31 | 1.3 | 1.3 |
| Total OPEC 3 | 2,555 | 2,500 | 1,988 | 2,230 | 2,299 | 1,973 | 2,096 | 2,217 | 92.4 | 93.9 |
| UK | 0 | 0 | 0 | 7 | 0 | 28 | 37 | 31 | 0 | 1.3 |
| Norway | 0 | 2 | 18 | 46 | 0 | 22 | 17 | 14 | 0 | 0.6 |
| Other | 196 | 92 | 69 | 6l | 113 | 91 | 79 | 80 | 7.1 | 3.4 |
| Total | 2,764 4 | 2,604 | 2,120 | 2,417 | 2,472 | 2,182 | 2,289 | 2,360 | 100.0 | 100.0 |

Selected Developed Countries: Crude Oil Imports, by Source (Continued)

| | | | Thousand | b/d | | | | |
|---|------------------|-------|-----------|---------------------------------------|------------|-----------|-----------|---------|
| | 4th Qtr | | | | 1977 | | Percent o | f Total |
| | 1973 (Pre- | | | · · · · · · · · · · · · · · · · · · · | | 2d | 4th Qtr | 2d Qtr |
| | Crisis Level) | 1974 | 1975 | 1976 | 1st Qtr | 2a Qtr | 1973 | 1977 |
| 1. No. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. | | | | | • | | | |
| Italy | | 49 | 77 | 51 | 22 | 20 | 2.4 | 0.9 |
| Algeria | 61 | 0 | 0 | 0 | 0 | 0 | 0 | 0 · |
| Egypt | 0 | _ | 374 | 312 | 331 | 327 | 15.2 | 15.0 |
| Iraq | 383 | 269 | 82 | 47 | 167 | 114 | | 5.3 |
| Kuwait | 212 | 130 | 260 | 340 | 302 | 328 | 23.7 | 15.0 |
| Libya | 597 | 478 | 260 26 | 26 | 24 | 20 | 0.8 | 0.9 |
| Qatar | 21 | 57 | | 545 | 605 | 694 | 27.5 | 31.8 |
| Saudi Arabia | 692 | 824 | 527 | 50 | 99 | 34 | 0 . | 1.6 |
| United Arab Emirates 1 | 0 | 13 | 33 | 0 | 0 | 0 | 0 | . 0 |
| Other ² | 0 | 0 | 0 | | 1,550 | 1,537 | 78.2 | 70.5 |
| Total OAPEC | 1,966 | 1,820 | 1,379 | 1,371 | 1,550 | 0 | 0 | 0 |
| Ecuador | 0 | 0 | 0 | 0 | 10 | 0 | 0.1 | 0 |
| Gabon | 3 | 10 | 6 | . 0 | 0 | 0 | 0 | 0 |
| Indonesia | 0 | 0 | 0 | . 0 | 250 | 296 | 11.0 | 13.6 |
| Iran | 277 | 301 | 258 | 292 | | 18 | 0.4 | 0.8 |
| Nigeria- | 9 | 63 | 7 | 7 | 10 | 34 | 0.7 | 1.6 |
| Venezuela | 18 | 13 | 20 | 16 | 12 | | 90.4 | 86.5 |
| Total OPEC 3 | 2,273 | 2,207 | 1,670 | 1,687 | 1,832 | 1,885 | 0 | 0 |
| UK | 0 | 0 | 0 | 13 | 4 | 0 | 0 | 0 |
| Norway | 0 · | 0 - | 0 | 0 | 0 | 0 | 9.6 | 13.5 |
| Other 5 | 241 | 190 | 271 | 371 | 348 | 295 | | 100.0 |
| Total | 2,514 | 2,397 | 1,941 | 2,071 | 2,184 | 2,180 | 100.0 | 100.0 |

¹ Including oil imports from Abu Dhabi and possibly from Dubai and Sharjah, which are not members of OAPEC.

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² Including, when applicable, Bahrain and Syria.

³ Consisting of OAPEC members (excluding Bahrain, Egypt, and Syria) plus the other countries shown.

⁴ Estimated.

Including data that cannot be distributed by area of origin.

| | | | | | | | | | | | | Thou | sand b/d |
|----------------------------------|----------------|----------------|----------------|----------------|----------------------|--------------|--------------|--------------|----------------|----------------|----------------------|--------------|-------------------|
| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Annual Average |
| United States 1 | | | | | | - | • | | | 001 | 1107 | Dec | iverage |
| 1973 Crude imports | 0.700 | 0.050 | 0.100 | | | | | | | | | | |
| Product imports | 2,732 3,079 | 2,873 3,501 | | -, | , | | , | | -, | | 3,452 | 2,89 | 1 3,244 |
| Total imports | 5,811 | 6,374 | | 2,551 5,600 | _, | | -, | | ., | | | | |
| Exports | 210 | 260 | | 275 | | | | | , | , | | -, | |
| Net imports | 5,601 | 6,114 | | 5,325 | | | | | | | | | |
| 1974 | | | -, | 0,00 | 0,001 | 0,003 | 0,502 | 0,209 | 6,132 | 6,304 | 6,662 | 5,719 | 6,025 |
| Crude imports | 2,382 | 2,248 | 2,462 | 3,267 | 3,908 | 3,925 | 4,091 | 3,924 | 3,797 | 3,810 | 3,958 | 3,869 | 9 477 |
| Product imports | 2,973 | 2,973 | 2,753 | 2,703 | | | | | | | ., | | |
| Total imports Exports | 5,355 207 | 5,221 | 5,215 | 5,970 | | | -, | | | -, | | | |
| Net imports | 5,148 | 203 5,018 | 196 | 243 | | | | | | 221 | | -, | |
| 1975 | 0,140 | 2,016 | 5,019 | 5,727 | 6,241 | 6,180 | 6,235 | 6,111 | 5,851 | 5,909 | 6,476 | 6,491 | |
| Crude imports | 4,029 | 3,828 | 3,656 | 3,378 | 3,486 | 3,905 | 4,192 | 4501 | 4 000 | 4 000 | | | |
| Product imports | 2,832 | 2,348 | 2,074 | 1,662 | 1,728 | 1,502 | | | 4,689 2,115 | 4,389 | , | 4,476 | , |
| Total imports | 6,861 | 6,176 | 5,730 | 5,040 | 5,214 | 5,407 | 5,959 | | 6,804 | 1,940 6,329 | 1,796 6,419 | 1,949 | , |
| Exports | 228 | 248 | 213 | 190 | 202 | 224 | 186 | | 205 | 187 | 166 | 6,425 262 | 6,056 209 |
| Net imports 1976 | 6,633 | 5,928 | 5,517 | 4,850 | 5,012 | 5,183 | 5,773 | | 6,599 | 6,142 | 6,253 | 6,163 | 5,847 |
| Crude imports | 4 504 | 4.000 | 4 200 | | | | | | , | -, | 0,200 | 0,100 | 0,011 |
| Product imports | 4,594 2,016 | 4,208 2,423 | 4,738 | 4,790 | 4,669 | 5,621 | 5,792 | 5,556 | 5,875 | 5,699 | 5,955 | 5,925 | 5,287 |
| Total imports | 6,610 | 6,631 | 1,946 6,684 | 1,805 | 1,654 | 1,858 | 2,099 | 1,826 | 2,038 | 1,808 | 2,115 | 2,353 | 2,008 |
| Exports | 156 | 241 | 185 | 6,595 222 | 6,323 180 | 7,479 | 7,891 | 7,382 | 7,913 | 7,507 | 8,070 | 8,278 | 7,295 |
| Net imports | 6,454 | 6,390 | 6,499 | 6,373 | 6,143 | 213 7,266 | 242 7,649 | 220 7,162 | 196 | 198 | 348 | 309 | 226 |
| 1977 | | • | -, | 3,0.0 | 0,110 | 1,200 | 7,040 | 7,102 | 7,717 | 7,309 | 7,720 | 7,969 | 7,069 |
| Crude imports | 6,288 | 6,652 | 6,633 | 6,785 | 6,821 | 6,947 | 6,656 | 6,572 | 6,580 | | | | |
| Product imports | 2,594 | 3,278 | 2,529 | 1,886 | 1,754 | 1,855 | 1,800 | 2,010 | 2,170 | | | | |
| Total imports Exports | 8,882 | 9,930 | 9,162 | 8,671 | 8,575 | 8,802 | 8,456 | 8,582 | 8,750 | | | | |
| Net imports | 192 8,690 | 234 | 207 | 223 | 288 | 256 | 212 | 228 | 214 | | | | |
| Canada | 0,000 | 9,696 | 8,955 | 8,448 | 8,287 | 8,546 | 8,244 | 8,354 | 8,536 | | | | |
| 1973 | | | | | | | | | | | | | |
| Crude imports | 945 | 975 | 932 | 772 | 930 | 741 | 1,058 | 937 | 040 | F 00 | 00.4 | | |
| Product imports | 163 | 93 | 55 | 37 | 119 | 121 | 1,008 | 153 | 940 105 | 799 132 | 934 | 802 | 897 |
| Total imports | 1,108 | 1,068 | 987 | 809 | 1,049 | 862 | 1,180 | 1,090 | 1,045 | 931 | $\frac{140}{1,074}$ | 149 951 | 130 |
| Exports | 1,357 | 1,500 | 1,364 | 1,472 | 1,495 | 1,446 | 1,162 | 1,298 | 1,300 | 1,363 | 1,357 | 1,237 | 1,027 $1,364$ |
| Net imports 1974 | -249 | -432 | -377 | -663 | -446 | -584 | 18 | -208 | -255 | -432 | -283 | -322 | -337 |
| Crude imports | 822 | 988 | 717 | 710 | 071 | 5 00 | | | | | | | |
| Product imports | 96 | 44 | 142 | 718 33 | $971 \\ 114$ | 763 125 | 816 | 817 | 672 | 787 | 798 | 721 | 820 |
| Total imports | 918 | 1,032 | 859 | 751 | 1,085 | 888 | 89 905 | 104 921 | 58 | 75 | 87 | 74 | 83 |
| Exports | 1,180 | 1,402 | 1,056 | 1,266 | 1,270 | 1,220 | 956 | 978 | 730 1,026 | 862 988 | 885 | 795 | 903 |
| Net imports | -262 | -370 | -197 | -515 | -185 | -332 | -51 | -57 | -296 | -126 | $\frac{1,110}{-225}$ | 981 186 | 1,086 |
| 1975 | 1.050 | | | | | | | ٠. | 200 | 120 | - 4440 | -100 | - 183 |
| Crude imports Product imports | 1,052 | 915 | 849 | 804 | 1,067 | 850 | 678 | 946 | 716 | 516 | 562 | 929 | 824 |
| Total imports | 48 1,100 | 68 983 | 27 876 | 46 | 56 | 56 | 48 | 50 | 40 | 57 | 26 | 27 | 41 |
| Exports | 1,122 | 1,068 | 834 | 850 815 | 1,123 74 5 | 906 | 726 | 996 | 756 | 573 | 588 | 956 | 865 |
| Net imports | - 22 | - 85 | 42 | 35 | 378 | 702 204 | 893 | 903 | 936 | 921 | 1,017 | 848 | 899 |
| 1976 | | - | | 00 | 010 | 204 | -167 | 93 | -180 | -348 | -429 | 108 | -34 |
| Crude imports | 738 | 783 | 870 | 802 | 793 | 832 | 825 | 728 | 409 | 565 | 690 | 500 | 700 |
| Product imports | 21 | 26 | 30 | 16 | 45 | 45 | 43 | 54 | 23 | 60 | 50 | 596 20 | 720 36 |
| Total imports | 759 | 809 | 900 | 818 | 838 | 877 | 868 | 782 | 432 | 625 | 740 | 616 | 756 |
| Exports Net imports | 1,029 | 669 | 569 | 636 | 650 | 676 | 815 | 57 1 | 603 | 605 | 625 | 612 | 646 |
| 1977 | -270 | 140 | 331 | 182 | 188 | 201 | 5 3 | 211 | 171 | 20 | 115 | 4 | 110 |
| Crude imports | 729 | 645 | 752 | 585 | 679 | 900 | 61.4 | | | | | | |
| Product imports | 28 | 25 | 27 | 19 | 49 | 802 60 | 614 | | | | | | |
| Total imports | 757 | 670 | 779 | 604 | 728 | 862 | 37 651 | | | | | | |
| Exports | 611 | 568 | 522 | 526 | 515 | 506 | 523 | | | | | | |
| Net imports | 146 | 102 | 257 | 78 | 213 | 356 | 128 | | | | | | |
| pan 1973 | | | | | | | | | | | | | |
| Crude imports | 4 660 | 4 775 | 4.000 | | | | | | | | | | |
| Product imports | 4,662 640 | 4,775 | 4,830 | 4,864 | 4,918 | 5,043 | 4,697 | 5,550 | 4,878 | 5,483 | 5,029 | 5,139 | 4,992 |
| Total imports | | 803 5,578 | 650 5.480 | 542 5 406 | 664 | 640 | 523 | 507 | 443 | 592 | 533 | 486 | 584 |
| Exports | 11 | 33 | 5,480 23 | 5,406 28 | 5,582 19 | 5,683 13 | 5,220 | 6,057 | 5,321 | 6,075 | 5,562 | 5,625 | 5,576 |
| Net imports | | 5,545 | | 5,378 | 5,563 | 5,670 | 39 5 191 | 31 | 21 | 25 | 13 | 25 | 24 |
| 1974 | | | ., | 2,210 | 5,500 | J, J 1 U | 5,181 | 6,026 | 5,300 | 6,050 | 5,549 | 5,600 | 5,552 |
| Crude imports | | 5,008 | 4,886 | 5,120 | 4,794 | 4,878 | 5,204 | 4,601 | 4,214 | 4,763 | 1910 | 1 00 4 | 4 700 |
| Product imports | 648 | 671 | 684 | 625 | 858 | 823 | 755 | 624 | 531 | 529 | 4,818 569 | 4,834 597 | 4,798 662 |
| Total imports | | 5,679 | | 5,745 | 5,652 | 5,701 | 5,959 | 5,225 | 4,745 | 5,292 | 5,387 | 5,431 | 5,460 |
| Exports Net imports | 14 5,101 | 25 5 65 4 | 16 | 20 5 705 | 24 | 17 | 25 | 93 | 135 | 46 | 79 | 179 | 56 |
| - | | 5,654 | | 5,725 | 5,628 | 5,684 | 5,934 | 5,132 | 4,610 | 5,246 | 5.308 | 5,252 | 5,404 |
| Approved | For Rele | ease 2 | :001/04 | ¥/11 : ¢ | CIA-RI | DP79E | 30045 | 7A001 | 10001 | 0001-0 |) | , | , |

CIA-RDP79B00457A001100010001-0

Selected Developed Countries: Trends in Oil Trade
Approved For Release 2001/04/11: CIAMPDP#9B00457A001100010001-0

Thousand b/d

| | | | | | | | | | | | | $\overline{}$ | |
|----------------------------------|-----------------------|---------------------|-------------------|---------------------|---------------------|--------------|----------------|--------------|---------------------------------------|---------------------|----------------|---------------------|---------------------|
| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec A | nnual verage |
| Japan (Continued) | | | | | | | | | | | | | |
| 1975 | 4 591 | 4,502 | 4,773 | 4,304 | 4,765 | 3,956 | 4,401 | 4,120 | 4,637 | 4,928 | , | 4,880 | 4,539 |
| Crude imports | 4,581 471 | 367 | 466 | 445 | 439 | 361 | 487 | 489 | 461 | 518 | 545 | 574 | 469 |
| Product imports Total imports | | | | 4,749 | 5,204 | 4,317 | 4,888 | 4,609 | ., | 5,446 | 5,156 5 | 5,454 6 | 5,008 32 |
| Exports | 80 | 52 | 40 | 38 | 61 | 40 | 42 | 17 | 5 5000 | 7 5,439 | | 5,448 | 4,976 |
| Net imports | 4,972 | 4,817 | 5,199 | 4,711 | 5,143 | 4,277 | 4,846 | 4,592 | 5,093 | 0,400 | 0,101 | 0,110 | 2,010 |
| 1976 | | | | 4.000 | 4 017 | 4,469 | 4,690 | 4,391 | 4,492 | 4,642 | 5,165 | 5,019 | 4,601 |
| Crude imports | 3,901 | 4,683 | 4,586 704 | 4,989 563 | 4,217 593 | 637 | 669 | 651 | 747 | 504 | 615 | 634 | 634 |
| Product imports | 699 | 649 5,332 | 5,290 | 5,552 | 4,810 | 5,106 | 5,359 | 5,042 | 5,239 | 5,146 | , | 5,653 | 5,235 |
| Total imports | 4,600 3 | 5 | 9 | 4 | 4 | 5 | 5 | 6 | 9 | 4 | 9 | 6 | 6 |
| Exports | 4,597 | 5,327 | 5,281 | 5,548 | 4,806 | 5,101 | 5,354 | 5,036 | 5,230 | 5,142 | 5,771 | 5,647 | 5,229 |
| Net imports 1977 | 1,001 | 0,02. | - 1 | • | | | | | | | | | |
| Crude imports | 5,023 | 4,857 | 5,671 | 4,210 | 4,955 | 4,234 | 4,398 | 4,940 | | | | | |
| Product imports | 584 | 686 | 665 | 632 | 682 | 729 | 561 | 644 5,584 | | | | | |
| Total imports | 5,607 | 5,543 | 6,336 | 4,842 | 5,637 | 4,963 | 4,959 8 | 5,564 5 | | | | | |
| Exports | 7 | 8 | 8 | 6 | 4 | 11 | 4,951 | 5,579 | | | | | |
| Net imports | 5,600 | 5,535 | 6,328 | 4,836 | 5,633 | 4,952 | 4,001 | 0,010 | | | | | |
| France | | | | | | | | | | | | | |
| 1973 | 2,897 | 2,699 | 2,955 | 2,728 | 2,540 | 2,676 | 2,288 | 2,791 | 2,764 | 2,797 | 3,053 | 2,549 | 2,728 |
| Crude imports | 2,897 137 | 174 | 148 | 142 | 176 | 128 | 138 | 169 | 139 | 171 | 126 | 117 | $\frac{147}{2,875}$ |
| Product imports Total imports | 3,034 | 2,873 | 3,103 | 2,870 | 2,716 | 2,804 | 2,426 | 2,960 | 2,903 | 2,968 | 3,179 | 2,666 | 2,875 |
| Exports | 255 | 260 | 232 | 226 | 317 | 290 | 246 | 307 | 307 | 261 | 253 2,926 | $\frac{279}{2,387}$ | 2,606 |
| Net imports | 2,779 | 2,613 | 2,871 | 2,644 | 2,399 | 2,514 | 2,180 | 2,653 | 2,596 | 2,707 | 2,920 | 2,001 | 2,000 |
| 1974 | | | | | 0.450 | 0.555 | 0.500 | 2,529 | 2,274 | 2,725 | 2,322 | 2,686 | 2,604 |
| Crude imports | 2,686 | 2,942 | 2,508 | 2,990 | 2,476 | 2,555 98 | $2,580 \\ 180$ | 152 | 188 | 157 | 134 | 200 | 138 |
| Product imports | 80 | 121 | 80 | 121 | $\frac{144}{2,620}$ | 2,653 | 2,760 | 2,681 | 2,462 | 2,882 | 2,456 | 2,886 | 2,74 |
| Total imports | 2,766 | 3,063 | 2,588 258 | $\frac{3,111}{277}$ | 2,020 | 2,035 | 210 | 211 | 186 | 166 | 220 | 211 | 22 |
| Exports | 269 | 230 2,833 | 2,330 | 2,834 | 2,363 | 2,428 | 2,550 | 2,470 | 2,276 | 2,716 | 2,236 | 2,675 | 2,51 |
| Net imports | 2,497 | 2,000 | 2,000 | 2,001 | 2,000 | _, | -,- | , | | | | | 2.12 |
| 1975 | 2,234 | 2,056 | 2,095 | 2,047 | 1,952 | 1,989 | 2,130 | 2,201 | 2,136 | 2,199 | 2,203 | 2,462 | 2,120 |
| Crude imports Product imports | 213 | 266 | 203 | 165 | 127 | 162 | 180 | 100 | 118 | 113 | 131 | 131 2,593 | 15 2,27 |
| Total imports | 2,447 | 2,322 | 2,298 | 2,212 | 2,079 | 2,151 | 2,310 | 2,301 | 2,254 | $\frac{2,312}{214}$ | $2,334 \\ 267$ | 259 | 22 |
| Exports | 209 | 221 | 175 | 217 | 190 | 230 | 182 | 302 | 264 1,990 | 2,098 | 2,067 | 2,334 | 2,05 |
| Net imports | 2,238 | 2,101 | 2,123 | 1,995 | 1,889 | 1,921 | 2,128 | 1,999 | 1,000 | 2,000 | = ,00. | _, | • |
| 1976 | | | 0.000 | 0.500 | 0.100 | 2,039 | 2,456 | 2,370 | 2,517 | 2,180 | 2,767 | 2,704 | 2,41 |
| Crude imports | 2,175 | 2,447 | 2,600 158 | 2,500 158 | $\frac{2,188}{128}$ | 233 | 266 | 218 | 199 | 223 | 170 | 151 | 18 |
| Product imports | 134 2,309 | 143 2,590 | 2,758 | 2,658 | 2,316 | 2,272 | 2,722 | 2,588 | 2,716 | 2,403 | 2,937 | 2,855 | 2,59 |
| Total imports | 2,309 | 325 | 395 | 316 | 272 | 324 | 244 | 288 | 274 | 207 | 268 | 288 | 24 |
| Exports Not imports | 2,033 | 2,265 | 2,363 | 2,342 | 2,044 | 1,948 | 2,478 | 2,300 | 2,442 | 2,196 | 2,669 | 2,567 | 2,34 |
| Net imports 1977 | 2,000 | -, | • | | | | | | | | | | |
| Crude imports | 2,711 | 2,508 | 2,198 | 2,537 | 1,944 | 2,079 | 2,289 | 2,360 | | | | | |
| Product imports | 123 | 117 | 169 | 166 | 145 | 183 | 171 | 216 2,576 | | | | | |
| Total imports | 2,834 | 2,625 | 2,367 | 2,703 | 2,089 | 2,262 | 2,460 278 | | | | | | |
| Exports | 277 | 266 | 286 | 356 | $\frac{366}{1,723}$ | 276 1,986 | | | | | | | |
| Net imports | 2,557 | 2,359 | 2,081 | 2,347 | 1,723 | 1,900 | 2,102 | 2,220 | | | | | |
| Italy | | | | | | | | | | | | | |
| 1973 | 2,308 | 2,448 | 2,600 | 2,598 | 2,498 | 2,996 | 2,779 | | | 2,548 | 1,844 | N.A. | |
| Crude imports Product imports | 2,306 76 | | | 98 | 154 | 98 | | | | | | N.A. | |
| Total imports | 2,384 | | 2,697 | 2,696 | 2,652 | | | | | | 1,909 515 | N.A. N.A | |
| Exports | 604 | | | 595 | | | | | | | | N.A | |
| Net imports | 1,780 | 1,953 | 2,184 | 2,101 | 1,974 | 2,423 | 2,113 | 2,196 | 2,252 | 1,941 | 1,004 | 14.21 | |
| 1974 | | | | | 0.001 | 0.405 | 2,575 | 5 2,800 | 2,254 | 2,270 | 2,285 | 2,237 | 7 2,3 |
| Crude imports | 1,576 | | | | | | | | | | | 283 | 3] |
| Product imports | | | | | | | | | | 2,495 | 2,663 | | |
| Total imports | 1,647 | | | · · · · · · | | | * | | · · · · · · · · · · · · · · · · · · · | 293 | 375 | | |
| Exports | 198 $1,449$ | | | | | | _ | | | 2,202 | 2,288 | 2,15 | 7 2,0 |
| Net imports | 1,44 | , 4,400 | , 1,0-20 | _,550 | _, | , | | | | | | 1.00 | 0 14 |
| 1975 Crude imports | 1,858 | 3 1,688 | 3 1,724 | 1,843 | 1,659 | 1,949 | | | | | | | |
| Oruge imports | | • | | | 319 | | | | | | | | |
| Product imports | 172 | | | | | | | | | | | | |
| Product imports Total imports | 2,030 | | 7 1,970 | | | | | | | | | | |
| Total imports Exports | 2,030 240 1,790 | 0 	 1,917 $0 	 264$ | 7 	1,970 $4 	212$ | 2 240 | 246 | 30 | 8 28 | 5 413 | 3 394 | 324 | 4 252 | 23 | 6 2 |

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Thousand b/d Annual Jan Feb Mar May Apr Jun Jul Aug Sep Oct Italy (Continued) Nov Dec Average 1976 Crude imports 2,024 2,024 2,024 2,014 2,014 2,014 2,115 2.115 2.115 2,131 2,131 2,131 2.071 Product imports 160 160 160 216 216 216 219 219 219 194 194 194 Total imports 2,184 2,184 197 2,184 2,230 2,230 2,230 2.334 2,334 2,334 2,325 2,325 2.325 Exports 2,268 271 271 271 337 337 337 322 322 322 289 289 289 Net imports 1,913 1,913 305 1,913 1,893 1.893 1,893 2,012 2,012 2,036 2,012 2,036 1977 ² 2,036 1,963 Crude imports 2,198 2,198 2.198 2,370 1,931 2.145 1,966 2,025 1,971 Product imports 232 232 232 198 141 196 145 134 161 Total imports 2.430 2,430 2,430 2,568 2,072 2,341 2,111 2.159 2,132 Exports 368 368 368 341 365 434 290 358 292 Net imports 2.062 2,062 2,062 2,227 1,707 1,907 1,821 United Kingdom 1,801 1,840 1973 Crude imports 2,276 2,090 2,273 2.248 2,402 2,535 2,175 2,818 1,917 2,892 2,415 2,004 Product imports 2.329 615 533 457 359 488 439 323 417 361 416 326 208 Total imports 2,891 409 2,623 2,730 2.607 2,890 2.974 2,498 3,235 2,278 3,308 2,741 2.212 2,738 Exports 464 311 323 329 332 257 430 555 496 464 488 Net imports 293 396 2,427 2,312 2,407 2,278 2,558 2,717 2,068 2.680 1,782 1974 2,844 2,253 1,919 2,342 Crude imports 2,593 2 439 2,486 2,437 2,486 2,442 2.182 1,994 2.144 2,534 2.259 Product imports 1,941 2,271 440 372 353 306 364 291 326 252 246 324 Total imports 3,033 372 385 314 2,811 2,839 2,743 2,850 2,733 2,508 2,246 2,390 2.858 2,631 Exports 2,326 2,585 491 256 204 238 344 373 331 364 353 385 268 314 Net imports 2,542 321 2,555 2.635 2,505 2,506 2,360 2,177 1,882 2.037 2,473 1975 2,363 2,012 2,264 Crude imports 2,216 2,030 1,491 1,849 1,802 1,926 1,748 1,776 1.687 2 032 1,429 Product imports 1,599 1,775 442 329 267 290 231 257 262 247 240 303 348 344 Total imports 2,658 292 2,359 1.758 2,139 2,033 2,183 2,010 2,023 1.927 2,335 1,777 1,943 2,067 Exports 310 343 224 226 262 303 317 308 357 423 299 261 300 Net imports 2,348 2,016 1.534 1.913 1,771 1,880 1,693 1.715 1976 1,570 1,912 1,478 1.683 1,767 1,888 Crude imports 1,762 1.986 1,698 1,938 1,814 1.688 1,615 1,779 1,474 2,112 1,724 Product imports 1,770 302 314 421 301 318 267 297 220 221 200 Total imports 2.190 2,300 251 283 282 2,183 2,239 2,016 2.081 1,985 1,835 2.000 2,363 1.674 Exports 2,007 2,052 333 264 384 332 349 328 407 399 488 464 522 447 Net imports 392 1.857 2,036 1,799 1,907 1,667 1,753 1,578 1,436 1977 1.512 1,210 1,841 1,560 1,660 Crude imports 1,756 1,511 1,672 1,347 1,701 1.449 1,147 1,263 Product imports 253 238 261 272 312 286 261 313 Total imports 2,109 1,749 1,933 1,619 2,013 1,735 1,408 1,576 Exports 546 575 589 538 539 732 597 747 Net imports 1,563 1,174 1.344 1.081 1,474 1,003 811 West Germany 829 1973 Crude imports 2,177 2,217 2,226 2,201 2,173 2,306 2,091 2,140 2,297 2,359 2,274 Product imports 2,067 2,210 776 788 690 831 870 748 789 710 828 904 Total imports 2,953 859 709 836 3,005 2,916 3,032 3,043 3,054 2.889 2,850 3,125 3,263 3,133 2,776 3,046 Exports 153 177 164 135 184 174 177 185 155 239 235 141 Net imports 177 2,800 2.828 2,752 2,897 2,859 2,880 2,712 2,665 2,970 3,024 1974 2,898 2,635 2,869 Crude imports 2,050 1,891 1,973 1,962 1,990 2.245 2,080 2,147 2.055 2,048 2,244 1,918 Product imports 2,050 613 767 646 795 740 882 891 806 Total imports 756 669 689 746 2,663 2,665 2,649 2,608 2,785 2,985 2,962 3,038 2.8612,804 Exports 2,913 2,607 2.796 180 178 238 147 236 141 170 214 193 165 184 Net imports 186 2,483 2,487 2,411 199 2,461 2,549 2,844 2,792 2.824 2,668 2,639 1975 2,729 2,421 2,597 Crude imports 1,684 1,614 1,453 1,798 1,754 1,911 1,676 1,839 1,810 2,051 1,935 2,075 1,807 Product imports 583 766 606 824 575 920 794 767 873 789 667 Total imports 718 709 2,267 2,380 2,059 2,622 2,329 2,831 2,470 2,606 2,683 2,840 2,742 Exports 2,653 2,509 158 132 120 113 100 121 137 120 133 125 Net imports 161 126 129 2,260 2,109 1,946 2,490 2,229 2,710 2.333 2,486 2,550 2,715 2,581 1976 2,527 2,380 Crude imports 1,669 1,836 1,717 1,823 1.830 1,847 2,050 2,168 2,220 2,068 2,233 2,273 Product imports 1,979 761 978 792 808 833 871 850 991 811 645 Total imports 690 899 830 2,430 2,814 2,509 2,631 2,663 2,718 2,900 3,159 3,031 Exports 2,713 2,923 3,172 2.809 113 115 148 115 131 101 176 128 Net imports 168 116 132 160 134 2,317 2,699 2,361 2,516 2,532 2,617 2,724 3,031 1977 2,863 2.597 2,791 3,012 2.675 Crude imports 2,140 2,020 1,894 1,774 1,871 1,920 2,042 Product imports 705 615 680 813 751 921 969 Total imports 2,845 2,635 2,574 2,587 2,622 2,841 3,011 Exports 78 155 128 113 152 147 117 Net imports 2,767 2,480 2,446 2,474 2,470 2,694 2.894

 $\overline{\mathbb{P}^{1}}$

100

² Estimated.

¹ Bureau of the Mines data through Apr 1977.

Developed Countries: Exports to OPEC 1

| | | | | | | | | LOST LIADO | 113 10 | OLEC | | | N | fillion I | S \$ (f.o.b.) |
|-----------|------------|---------------|--------------|--------------|--------------|---------|--------------|------------|-----------|---------|-------|---------|----------------|----------------|---------------|
| | | | Ecua | | Indo- | | | | | | - | Saudi | | Vene- | 5 φ (1.0.0.) |
| | | Algeria | dor | Gabon | nesia | Iran | Iraq | Kuwait | Libya | Nigeria | Qatar | Arabia | UAE | zuela | Total |
| United | States | | | | | | | | | | | | | | |
| 1974 | | 315.1 | 325.8 | 32.5 | 530.5 | 1,733.6 | 284.7 | 208.5 | 139.4 | 286.4 | 22.0 | 0051 | 220 = | . = | |
| 1975 | | 631.8 | 409.8 | | 810.1 | | 309.7 | | 231.5 | | | 835.1 | 229.7 | , | 6,722.6 |
| 1976 | | 487.0 | 415.8 | | | 2,776.0 | | 471.5 | 276.6 | | | , | 372.2 | , | 10,765.3 |
| 1st | Qtr | 75.7 | 91.8 | | 271.1 | | 78.6 | | 33.1 | | | • | 424.8 | , | 12,565.9 |
| | Qtr | 165.5 | 99.8 | | 286.7 | | 95.4 | 110.3 | 52.5 | | 16.5 | 484.9 | 111.2 | 591.7 | 2,750.8 |
| 3d | Qtr | 113.0 | 105.1 | | 244.5 | | 159.0 | 114.6 | | | 19.6 | 743.3 | 112.0 | 640.1 | 3,112.9 |
| 4th | | 132.8 | 119.6 | | 233.7 | | 48.8 | 134.7 | 118.1 | | 8.5 | 714.2 | 81.0 | 617.4 | 3,105.7 |
| 1977 | ` | | | 20.0 | 200.1 | 100.1 | 40.0 | 104.7 | 72.9 | 283.1 | 34.1 | 831.7 | 120.6 | 778.6 | 3,596.5 |
| lst | | 116.0 | 98.0 | 9.3 | 187.8 | 592.7 | 5 3.7 | 152.3 | 68.5 | 203.6 | 24.6 | 739.5 | 147.0 | 669.2 | 0.000.0 |
| 2d (| Qtr | 145.7 | 133.4 | 9.5 | 197.1 | 609.8 | 49.5 | 157.1 | 89.0 | | 19.0 | 838.1 | 134.3 | 766.8 | 3,062.2 |
| Japan | | | | | | | | | | | 20.0 | 000.1 | 104.0 | 700.0 | 3,388.9 |
| 1974 | | 154.5 | 113.8 | 7.4 | 1,453.3 | 1,014.9 | 474.4 | 279.5 | 234.4 | 285.1 | 46.7 | 677.5 | 309.2 | 399.0 | E 440.77 |
| 1975 | | 260.9 | 177.8 | 14,2 | 1,849.9 | 1,855.3 | 818.8 | 367.1 | 240.2 | | 122.3 | 1,350.4 | 420.2 | 360.2 | 5,449.7 |
| 1976 | | 204.4 | 133.6 | 16.7 | 1,642.4 | 1,709.4 | 626.2 | 720.4 | 327.2 | | 229.0 | 1,892.7 | 636.8 | 563.6 | 8,423.3 |
| 1st (| | 44.3 | 21.6 | 1.8 | 361.6 | 400,0 | 128.0 | 126.2 | 68.1 | | 56.5 | 330.8 | 130.8 | 89.4 | 9,277.4 |
| 2d (| Qtr | 56.6 | 32.8 | 2.7 | 381.1 | 400.0 | 191.4 | 172.9 | 75.0 | | 42.2 | 529.6 | | | 1,871.7 |
| 3d (| | 33.5 | 34.8 | 7.3 | 435.8 | 437.4 | 156.4 | 199.1 | 93.7 | 133.2 | 60.6 | 569.8 | 143.4 165.1 | 118.6 | 2,271.1 |
| 4th | Qtr | 70.0 | 44.4 | 4.9 | 463.9 | 472.0 | 150.4 | 222.2 | 90.4 | 204.4 | 69.7 | 462.5 | 197.5 | 149.1 206.5 | 2,475.8 |
| 1977 | | | | | | | | _ | | _01.1 | 00.1 | 402.0 | 191.0 | 200.5 | 2,658.8 |
| lst (| Qtr | 52.0 | 38.2 | 5.9 | 390.6 | 427.2 | 131.3 | 237.5 | 67.9 | 211.1 | 73.2 | 425.8 | 224.5 | 173.8 | 2,459.0 |
| Apr | | 48.4 | 20.8 | 1.3 | 124.4 | 141.8 | 92.9 | 84.6 | 16.6 | 69.1 | 34.8 | 174.1 | 77.8 | 79.9 | 966.5 |
| West Ger | rmany | | | | | | | | | | - 4.0 | 1,1,1 | | 10.0 | 900.0 |
| 1974 | | 482.9 | 82. 3 | 28.3 | | 1,139.1 | 373.4 | 159.9 | 402.4 | 346.0 | 20.9 | 286.0 | 90.2 | 330.6 | 4,066.3 |
| 1975 | | 610.1 | 76.5 | 23.9 | 392.7 | 2,105.1 | 1,047.7 | 203.2 | 535.9 | 653.4 | 47.0 | 564.6 | 145.1 | 371.2 | 6,776.4 |
| 1976 | _ | 740.2 | 93.2 | 27.1 | 478.4 | 2,294.3 | 884.4 | 304.8 | 523.3 | 867.2 | | 1,191.1 | 233.3 | 540.5 | 8,245.5 |
| lst (| • | 178.1 | 17.5 | 5.2 | 97.6 | 484.5 | 216.6 | 56.0 | 121.4 | 185.5 | 15.0 | 182.8 | 45.9 | 104.2 | 1,710.3 |
| | Qtr | 152.5 | 17.9 | 6.8 | 104.2 | 539.7 | 182.9 | 63.7 | 102.0 | 176.6 | 22.3 | 302.3 | 50.0 | 117.3 | 1,838.2 |
| 3d Ç | | 198.0 | 34.1 | 7.5 | 123.7 | 590.1 | 269.2 | 83.0 | 153.6 | 214.2 | 11.3 | 324.1 | 58.3 | 167.7 | 2,234.8 |
| 4th (| Qtr | 211.6 | 23.7 | 7.6 | 152.9 | 680.0 | 215.7 | 102.1 | 146.3 | 290.9 | 19.1 | 381.9 | 79.1 | 151.3 | 2,462.2 |
| 1977 | _ | | | | | | | | | | | | | 101.0 | 2,402.2 |
| lst (| Įtr | 312.8 | 35.2 | 8.4 | 98.4 | 608.4 | 205.1 | 79.6 | 136.6 | 260.4 | 24.5 | 298.1 | 81.3 | 158.4 | 2,307.2 |
| Apr | | 69.8 | 7.4 | 2.7 | 28.9 | 221.1 | 81.7 | 28.2 | 49.0 | 104.6 | 6.0 | 107.4 | 34.9 | 57.6 | 799.3 |
| France | | | | | | | | | | | | | - | | 100.0 |
| 1974 | | 1,297.5 | | 185.0 | 103.9 | 257.5 | 214.4 | 63.9 | 362.7 | 175.0 | 9.4 | 120.0 | 68.6 | 140.9 | 3,017.2 |
| 1975 | | 1,904.2 | 18.2 | 335.8 | 120.6 | 631.6 | 409.0 | 97.5 | 405.5 | 462.9 | 15.0 | 198.6 | 134.1 | 175.8 | 4,908.8 |
| 1976 | . . | 1,475.2 | 17.7 | 389.8 | 219.3 | 652.7 | 473.5 | 225.9 | 348.7 | 531.8 | 31.7 | 339.3 | 190.8 | 170.4 | 5,066.8 |
| 1st Q | | 392.7 | 4.3 | 84.4 | 63.2 | 176.3 | 134.8 | 34.7 | 94.2 | 102.7 | 7.3 | 65.3 | 44.1 | 36.3 | 1,240.3 |
| 2d Q | | 330.2 | 4.8 | 90.6 | 56.3 | 162.8 | 110.4 | 53.8 | 99.2 | 133.7 | 7.2 | 92.0 | 41.1 | 39.0 | 1,221.1 |
| 3d Q | rtr | 383.1 | | 114.2 | 49.5 | 173.8 | 111.3 | 48.1 | 73.0 | 136.6 | 6.6 | 78.7 | 50.2 | 49.4 | 1,279.7 |
| 4th (| ζtr | 369.2 | 3.4 | 100.6 | 50.3 | 139.8 | 117.0 | 89.3 | 82.3 | 158.8 | 10.6 | 103.3 | 55.4 | 45.7 | 1,325.7 |
| lst Q | \ | 060 7 | بر بہ | 101.0 | | | | | | | | | | | • |
| Apr | , LI | 363.7 | | 121.0 | 56.2 | 154.3 | 127.7 | 36.4 | 98.6 | 184.8 | 20.7 | 114.3 | 52.2 | 56.2 | 1,391.6 |
| United Ki | inadom | 104.3 | 1.5 | 45 .6 | 19.7 | 57.0 | 32.2 | 18.0 | 33.3 | 55.0 | 4.1 | 59.4 | 13.6 | 16.0 | 459.7 |
| 1974 | inguoin | 128.1 | 21.0 | 0.4 | 100.0 | 050.0 | | | | | | | | | |
| 1975 | | 173.7 | 31.8 | 8.4 | 109.2 | 653.2 | 139.9 | 139.9 | 146.5 | 520.3 | 51.6 | 280.4 | 227.0 | 117.8 | 2,554.1 |
| 1976 | | | 38.4 | 6.3 | 133.4 | | 302.2 | 217.5 | | 1,125.9 | | 440.0 | 440.8 | 200.3 | 4,534.6 |
| 1st Q | ıtr | 183.7 50.0 | 41.2 | 7.3 | 144.4 | 921.1 | 273.5 | 257.1 | | 1,389.0 | 155.9 | 710.6 | 579.0 | 229.9 | 5,134.5 |
| 2d Q | | 47.0 | 7.0 | 2.1 | 33.4 | 235.3 | 95.5 | 52.0 | 57.1 | 339.8 | 38.3 | 131.7 | 141.1 | 55.1 | 1,238.4 |
| 3d Q | | 43.9 | 9.1 | 1.9 | 38.7 | 250.9 | 60.8 | 59.8 | 61.0 | 338.4 | 44.3 | 161.0 | 137.4 | 48.9 | 1,259.2 |
| 4th Q | | 43.9 42.8 | 11.4 | 1.5 | 32.2 | 226.2 | 63.4 | 69.8 | 64.7 | 340.5 | 34.0 | 193.8 | 130.3 | 50.8 | 1,262.5 |
| 1977 | | 12.0 | 13.7 | 1.8 | 40.1 | 208.7 | 53.8 | 75.5 | 59.0 | 370.3 | 39.3 | 224.1 | 170.2 | 75.1 | 1,374.4 |
| lst Q | tr | 43.8 | 22.3 | 2.0 | 49.7 | 0740 | 00.4 | Mo · | - | | | | | | |
| 2d Q | | 34.3 | 26.1 | 2.0 3.4 | 42.7 30.2 | 274.3 | 66.4 | 79.1 | 61.9 | 407.2 | 42.6 | 209.7 | 209.1 | 59.8 | 1,520.9 |
| V | | J 1.0 | <u>-0.1</u> | J. 18 | 0U.Z | 282.6 | 70.0 | 113.6 | 77.5 | 482.9 | 57.0 | 250.9 | 194.7 | 64.2 | 1,687.4 |

Developed Countries: Exports to OPEC 1 (Continued)

Million US \$ (f.o.b.)

| | Algeria | Ecua- dor | Gabon | Indo- nesia | Iran | Iraq | Kuwait | Libya | Nigeria | Qatar | Saudi Arabia | UAE | Vene- zuela | Total |
|-----------|---------|--------------|-------|----------------|-------|-------|------------|------------|---------|------------|-----------------|-------|----------------|---------|
| Italy | | | | F 0.0 | 000.4 | 96.0 | 65.7 | 853.8 | 131.0 | 11.0 | 133.2 | 37.3 | 211.6 | 2,237.8 |
| 1974 | 325.7 | 25.5 | 6.6 | 58.0 | 282.4 | 259.5 | 116.5 | 1.032.2 | | 22.6 | 323.3 | 87.6 | | 3,717.7 |
| 1975 | 559.7 | 30.2 | 13.9 | 85.5 | 566.3 | 203.2 | 175.2 | 955.5 | | 25.7 | 636.1 | 133.2 | | 4,026.4 |
| 1976 | 408.5 | 22.6 | 14.9 | 53.1 | 730.6 | | 26.3 | 186.0 | | 6.7 | 96.3 | 23.8 | | 755.8 |
| 1st Qtr | 104.5 | 4.3 | 2.4 | 12.3 | 140.4 | 42.7 | 39.1 | 232.8 | | 5.2 | 127.5 | 28.8 | | 950.7 |
| 2d Qtr | 77.9 | 4.8 | 3.2 | 18.4 | 193.5 | 67.6 | | 265.6 | | 7.5 | 155.0 | 31.0 | | 1,056.6 |
| 3d Qtr | 97.1 | 6.2 | | 11.8 | 198.6 | 48.4 | | 271.1 | | 6.3 | 257.3 | 49.6 | | 1,263.3 |
| 4th Qtr | 129.0 | 7.3 | 5.3 | 10.6 | 198.1 | 44.5 | 62.9 | 2/1.1 | 104.0 | 0.0 | 201.0 | 10.0 | | -, |
| 1977 | | | | | | =0.0 | 500 | 000.7 | 100.4 | 9.0 | 211.4 | 45.6 | 124.8 | 1,235.5 |
| 1st Qtr | 126.8 | 5.9 | | 11.5 | 193.6 | 53.6 | | | | 9.0 7.5 | | 33.5 | | 980.9 |
| Apr & May | 99.4 | 6.9 | 6.7 | 6.8 | 153.6 | 33.0 | 43.8 | 229.4 | 102.3 | 1.0 | 100.0 | 00.0 | 01.1 | 000.0 |
| Canada | | | | | | | | ~ 0 | 950 | 3.6 | 18.0 | 3.9 | 253.3 | 625.6 |
| 1974 | 161.2 | 13.4 | 0 | 54.9 | 61.1 | 19.6 | | | | | | 4.5 | | 826.6 |
| 1975 | 99.3 | 21.4 | 0.5 | 63.7 | 144.7 | 66.5 | | 22.4 | | 1.5 | | 11.4 | | 929.5 |
| 1976 | 94.6 | 24.5 | 2.5 | 77.1 | 145.9 | 36.2 | | | | 4.3 | | 2.5 | | 167.2 |
| 1st Qtr | 7.1 | 1.9 | 0.1 | 7.9 | 32.4 | 21.7 | | | | 1.2 | | | | 183.8 |
| 2d Otr | 20.6 | 13.5 | 1.3 | 15.4 | 35.2 | 8.2 | | | | 0.2 | | 3.1 | | 270.0 |
| 3d Qtr | 32.4 | 4.5 | 0.4 | 20.9 | 42.7 | 5.1 | 4.7 | | | | | 2.5 | | |
| 4th Qtr | 34.5 | 4.6 | 0.7 | 32.9 | 35.6 | 1.2 | 11.4 | 1.2 | 2 10.2 | 1.5 | 50.7 | 3.3 | 120.7 | 308.5 |
| 1977 | | | | | | | | | | | | | 70 0 | 0.47 1 |
| 1st Qtr | 29.6 | 3.3 | 0.6 | 24.7 | 35.1 | 22.1 | 13.2 | | | | | 3.4 | | 247.1 |
| 2d Qtr | 31.0 | 5 .3 | | 10.4 | 31.2 | 11.8 | 8.3 | 5.5 | 5 6.5 | 0.6 | 22.7 | 5.1 | 139.4 | 278.1 |

¹ Data are unadjusted.

Developed Countries: Imports From OPEC 1

Million US \$ (c.i.f.)

| | | Ecua- | | Indo- | | T | Kuwait | T ibya | Nigeria | Qatar | Saudi Arabia | UAE | Vene- zuela | Total |
|-----------------|---------|-------|-------|---------|---------------|---------------|---------|--------------|---------|--------------|-----------------|----------------|------------------|--------------------|
| | Algeria | dor | Gabon | nesia | Iran | ıraq | Kuwan | Libya | Migeria | Qatai | 7 KI WOZW | 4.12 | | |
| United States 2 | | | | | | | | | 0.000.0 | 70. 0 | 1 071 0 | 366.3 | 4,671.1 | 15,636.2 |
| 1974 | 1,090.5 | 473.0 | 162.3 | 1,688.1 | | 0.9 | 13.4 | | 3,286.2 | | 1,671.2 | 683.8 | 3,623.9 | 17,083.2 |
| 1975 | 1,358.6 | 460.8 | 196.9 | 2,220.6 | 1,399.8 | 19.1 | | 1,045.7 | | | 2,624.6 | 1,359.2 | 3,574.6 | 25.016.9 |
| 1976 | 2,209.4 | 539.0 | 189.8 | 3,004.3 | 1,480.1 | 110.0 | 37.6 | • | 4,937.6 | | 5,212.9 | 272.7 | 893.3 | 5,570.4 |
| 1st Qtr | 447.5 | 109.4 | 51.3 | 714.4 | 378.0 | 1.2 | 25.7 | | 1,016.8 | | 1,152.9 | 288.2 | 738.1 | 5,581.7 |
| 2d Qtr | 529.9 | 123.5 | 65.0 | 692.5 | 345.3 | 0.3 | 4.3 | 478.7 | * " | | 1,166.2 | | 935.5 | 6,951.8 |
| 3d Otr | 674.8 | 136.2 | 20.3 | 851.1 | 397.1 | 35.1 | 4.9 | | 1,365.3 | | 1,506.3 | 363.9 | | 6,913.0 |
| 4th Otr | 557.2 | 169.9 | 53.2 | 746.3 | 359.7 | 73.4 | 2.7 | 675.8 | 1,414.0 | 31.2 | 1,387.5 | 434.4 | 1,007.7 | 0,913.0 |
| 1977 | | | | | | | | | | | | 405.0 | 1 0146 | 8,324.0 |
| 1st Otr | 695.7 | 155.4 | 58.2 | 914.0 | 657.5 | 45.1 | | | 1,646.7 | | 1,603.2 | | 1,214.6 958.5 | 8,672.6 |
| 2d Qtr | 743.2 | 171.1 | 62.3 | 926.7 | 699.3 | 126.3 | 72.5 | 1,080.5 | 1,598.1 | 74.3 | 1,720.8 | 439.0 | 900.0 | 6,072.0 |
| Japan | | | | | | | | | | 20.1 | F 400 0 | 0 116 6 | 46.4 | 19,969.6 |
| 1974 | 34.3 | 22.3 | 6.8 | 4,569.3 | | | 2,131.9 | 364.2 | | | 5,238.2 | | 33.9 | 19,404.0 |
| 1975 | 36.4 | 13.5 | 12.8 | 3,431.2 | 4,978.3 | | 2,009.7 | 280.1 | | 27.6 | | 1,773.4 | 33.6 | 21,877.3 |
| 1976 | 10.3 | 22.0 | 17.9 | 4,093.3 | 4,453.8 | 579.1 | | 206.7 | | 30.4 | | | 9.8 | 5,212.8 |
| lst Qtr | 8.7 | 6.0 | 5.9 | 962.5 | 974.2 | 119.3 | | 16.0 | | | 1,856.7 | 635.5 | 7.6 | 5,399.8 |
| 2d Otr | 0.1 | 6.6 | 4.3 | 1,002.0 | 1,179.1 | 136.2 | | 62 .8 | | | 1,954.7 | 564.2 | 7.0 5.9 | 5,406.4 |
| 3d Qtr | 0.7 | 4.1 | 4.8 | 1,021.7 | 952.6 | 119.1 | | 69.0 | | 11.3 | • | 629.5 | 10.3 | 5,858.3 |
| 4th Qtr | 0.8 | 5.3 | 2.9 | 1,107.1 | 1,347.9 | 204.5 | 509.3 | 59.4 | 5.3 | 4.9 | 1,958.2 | 642.4 | 10.5 | 0,000.0 |
| 1977 | | | | | | | | | | | 0.000.1 | 200.0 | 10.6 | 6,245.8 |
| 1st Qtr | 1.7 | 5.0 | 2.5 | 1,252.5 | 1,181.0 | 187.4 | | | | | 2,328.1 | 699.0 177.4 | 3.8 | 1,776.5 |
| Apr | 0 | 1.6 | 0.4 | 390.9 | 24 9.6 | 62.4 | 181.1 | 2.7 | 7 4.2 | 23.5 | 678.9 | 177.4 | 3.0 | 1,770.0 |
| West Germany | | | | | | | | | | 00.0 | 0.0441 | 750 1 | 243.9 | 9,211.4 |
| 1974 | 1,090.8 | 66.1 | 97.7 | 188.7 | 1,240.3 | 305. 3 | | 1,633. | | | 2,044.1 | 752.1 | | 9,211.4 8,239.1 |
| 1975 | 1,025.4 | 62.0 | 107.4 | 153.4 | 1,467.4 | 127.9 | 226.9 | 1,391. | 1 962.4 | 124.0 | 1,623.1 | 736.0 | 432.1 | 0,205.1 |

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(Continued)

Million US \$ (c.i.f.)

| | Algeria | Ecua- dor | Gabon | Indo- nesia | Iran | Iraq | Kuwait | Libya | Nigeria | Qatar | Saudi Arabia | UAE | Vene- zuela | Total |
|-----------------|---------|--------------|-------|----------------|----------|------------|---------|---------|---------|-------|-----------------|---------|----------------|--------------------|
| West Germany | | | | | | | | | | | | | | |
| (Continued) | | | | | | | | | | | | | | |
| 1976 | 1,145.7 | 67.3 | 69.3 | 213.6 | 1,987.5 | 154.7 | 182.1 | 2,103.3 | 975.1 | 124.6 | 1,798.1 | 691.1 | 207.9 | 9,720.3 |
| 1st Qtr | 264.0 | 13.4 | 21.2 | 48.2 | 426.0 | 27.3 | 51.3 | 473.6 | | 26.3 | 388.7 | 153.6 | 44.3 | 2,189.5 |
| 2d Qtr | 292.8 | 14.4 | 21.2 | 35.4 | 410.3 | 33.2 | 55.3 | 474.9 | | 41.3 | 367.3 | 167.4 | 76.7 | 2,223.0 |
| 3d Qtr | 305.7 | 12.1 | 13.0 | 62.1 | 526.8 | 57.0 | 38.1 | 544.0 | | 0.1 | 554.8 | 177.9 | 45.1 | 2,575.4 |
| 4th Qtr | 283.2 | 27.4 | 13.9 | 67.9 | 624.4 | 37.2 | 37.4 | 610.8 | | 56.9 | 487.3 | 192.2 | 41.8 | 2,732.4 |
| 1977 | 200.2 | | 20.0 | 01.0 | 5 | 3 _ | 51.12 | 010.0 | | 00.0 | 101.0 | 102.2 | 1110 | ₩,10₩ 1 |
| 1st Qtr | 328.6 | 20.8 | 16.0 | 96.8 | 496.1 | 38.8 | 44.6 | 623.8 | 232.3 | 16.6 | 436.7 | 197.0 | 30.0 | 2,578.1 |
| Apr | 66.0 | 7.3 | 4.0 | 24.0 | 160.2 | 0.5 | 20.0 | 152.5 | | 22.3 | 131.7 | 72.4 | 10.5 | 755.6 |
| France | 00.0 | 1.0 | 1.0 | 21.0 | 100.2 | 0.0 | 20.0 | 102.0 | 04.2 | 22.0 | 101.7 | 12.1 | 10.0 | 100.0 |
| 1974 | 957.7 | 9.7 | 320.8 | 61.5 | 7163 | 1,242.3 | 938.5 | 386.8 | 872.8 | 264.0 | 3 008 3 | 1,184.6 | 1225 | 10,116.8 |
| 1975 | 747.2 | 15.7 | 246.8 | 55.2 | | 1,128.5 | 652.0 | 200.6 | | | 3,041.6 | • | 86.1 | 9,665.5 |
| 1976 | 691.4 | 13.2 | 293.8 | | • | 1,590.6 | 409.1 | | | 326.1 | | | | |
| | 179.8 | 3.7 | 64.2 | 97.2 | | 281.5 | 63.1 | 320.3 | | | | 1,235.3 | 94.0 | • |
| 1st Qtr | | | 74.1 | 14.4 | 358.9 | | | 78.7 | | 98.4 | 982.4 977.1 | 452.7 | 32.6 | 2,817.7 2,609.8 |
| 2d Qtr | 170.7 | 2.8 | | 21.5 | 315.8 | 331.6 | 120.4 | 89.4 | | 74.2 | | 238.5 | 20.7 | |
| 3d Qtr | 155.3 | 1.9 | 79.1 | 27.1 | 331.4 | 400.0 | 111.7 | 65.4 | | | 1,033.5 | 264.4 | 20.3 | 2,722.7 |
| 4th Qtr 1977 | 185.6 | 4.8 | 76.4 | 34.2 | 430.0 | 577.5 | 113.9 | 86.8 | | 73.5 | 1,086.1 | 279.7 | 20.4 | 3,185.4 |
| 1st Qtr | 196.5 | 5.5 | 88.1 | 30.7 | 448.6 | 470.7 | 125.5 | 65.4 | 209.4 | 99.5 | 1,033.5 | 263.5 | 19.5 | 3,056.4 |
| Apr | 54.5 | 3.5 | 32.8 | 13.6 | 134.1 | 135.4 | 23.8 | 16.3 | 84.9 | 16.4 | 304.5 | 53.3 | 6.0 | 879.1 |
| United Kingdo | m | | | | | | | | | | | | | |
| 1974 | 83.8 | 5.1 | 66.1 | 33.8 | 1,202.9 | 248.6 | 1,334.0 | 913.6 | 860.6 | 388.5 | 2,757.8 | 483.9 | 315.9 | 8,694.6 |
| 1975 | 189.8 | 4.6 | 8.1 | 33.2 | 1,554.3 | 226.1 | 935.5 | 288.5 | 685.0 | 348.5 | 1,915.3 | 356.6 | 366.8 | 6,912.3 |
| 1976 | 147.3 | 4.6 | 16.3 | 39.9 | 1,879.0 | 492.6 | 1,042.7 | 297.4 | 574.9 | 456.1 | 1,763.9 | 362.6 | 215.4 | 7,292.7 |
| 1st Qtr | 54.6 | 0.9 | 1.2 | 7.8 | 425.9 | 70.1 | 223.3 | 70.1 | 160.9 | 149.0 | 492.1 | 98.2 | 70.1 | 1,824.2 |
| 2d Qtr | 30.2 | 1.2 | 9.6 | 8.9 | 478.6 | 69.5 | 230.0 | 42.0 | 167.9 | 145.3 | 386.5 | 103.0 | 64.9 | 1,737.6 |
| 3d Qtr | 41.4 | 1.3 | 3.0 | 13.4 | 473.3 | 196.7 | 225.7 | 98.2 | 138.4 | 103.3 | 444.9 | 103.2 | 50.8 | 1,893.6 |
| 4th Qtr | 21.1 | 1.2 | 2.5 | 9.8 | 501.2 | 156.3 | 363.7 | 87.1 | 107.7 | 58.5 | 440.4 | 58.2 | 29.6 | 1,837.3 |
| 1977 | | | | | | | | | | | | | | Ť |
| 1st Qtr | 26.8 | 0.9 | 2.3 | 9.2 | 482.0 | 138.5 | 224.3 | 29.8 | 159.3 | 99.4 | 498.6 | 92.0 | 19.9 | 1,783.0 |
| 2d Qtr | 20.7 | 2.2 | 1.1 | 11.0 | 359.3 | 146.0 | 282.7 | 81.0 | | 32.7 | 558.7 | 102.1 | 35.3 | 1,701.7 |
| Italy | | | | | | | | | | | | | 33.3 | _,, |
| 1974 | 268.2 | 25.1 | 56.0 | 72.4 | 1,123.3 | 1.166.4 | 478.6 | 2,364.8 | 360.6 | 208.1 | 3,047.0 | 108.3 | 105.3 | 9,384.1 |
| 1975 | 405.3 | 34.0 | 41.7 | | 1,134.5 | • | 357.9 | | | | 2,351.2 | 201.1 | 159.7 | 7,854.2 |
| 1976 | 296.8 | 25.4 | 16.4 | | 1,218.9 | | | 1,587.0 | | | 2,423.8 | 236.8 | 208.1 | 7,831.2 |
| 1st Qtr | 81.3 | 4.8 | 1.9 | 21.4 | 290.5 | 313.3 | 17.9 | 351.8 | | 33.5 | 471.3 | 62.9 | 27.8 | 1,689.1 |
| 2d Qtr | 73.1 | 6.1 | 5.0 | 24.9 | 309.1 | 284.5 | 26.5 | 481.4 | | 39.9 | 729.8 | 49.6 | 49.1 | 2,091.7 |
| 3d Qtr | 76.5 | 7.8 | 5.5 | 30.1 | 303.4 | 356.9 | 71.9 | 403.1 | | 18.9 | 632.6 | 41.5 | 68.9 | 2,034.9 |
| 4th Qtr | 65.9 | 6.7 | 4.0 | 38.3 | 315.9 | 349.5 | 86.9 | 350.7 | | 47.8 | 590.1 | 82.8 | 62.3 | 2,015.5 |
| 1977 | 00.0 | 0.7 | 4.0 | 30.0 | 010.5 | 040.0 | 00.0 | 500.1 | 14.0 | #1.O | 000.1 | 02.0 | 04.0 | 2,010.0 |
| 1st Qtr | 40.5 | 7.7 | 13.2 | 33.3 | 340.9 | 370.9 | 168.2 | 355.1 | 30.5 | 26.5 | 644.8 | 96.5 | 37.5 | 2,165.6 |
| Apr & May | | 7.9 | 5.3 | 26.7 | 249.6 | 297.0 | 96.2 | 273.8 | | 20.0 | | | 20.2 | • |
| | 32.7 | 7.8 | 0.0 | 20.7 | 249.0 | 291.0 | 90.2 | 210.0 | 17.0 | 20.0 | 517.7 | 41.0 | 20.2 | 1,605.4 |
| Canada | 4.0 | 40.0 | 4.0 | 4 == | 000.0 | 07.4 | 00 0 | 01.0 | EF 1 | Λ. | 995 4 | 00.4 | 1 000 0 | 0.010 1 |
| 1974 | 6.9 | 40.0 | 4.9 | 4.7 | 633.6 | 37.2 | 66.0 | 31.3 | | 0 | 325.4 | | 1,320.0 | 2,613.1 |
| 1975 | 1.7 | 20.8 | 25.4 | 14.0 | 745.3 | 131.7 | 108.7 | 35.5 | | 6.3 | 733.3 | | 1,088.0 | 3,125.9 |
| 1976 | 66.1 | 30.6 | | 18.4 | 704.9 | 135.5 | 22.7 | 106.1 | | 0 | 488.8 | | 1,314.8 | 3,170.7 |
| 1st Qtr | 19.1 | 3.8 | 11.2 | 2.2 | 211.0 | 30.6 | 6.4 | | | 0 | 118.3 | 36.0 | | 843.0 |
| 2d Qtr | 19.5 | 7.2 | | 4.2 | 211.5 | 28.4 | 6.5 | | | 0 | 126.6 | 19.7 | 439.3 | 954.8 |
| 3d Qtr | 4.4 | 5.0 | | 6.0 | 132.5 | 47.9 | 9.8 | 20.0 | | 0 | 141.4 | 7.1 | 302.4 | 715.2 |
| 4th Qtr 1977 | 23.1 | 14.6 | 20.3 | 6.0 | 149.9 | 28.6 | 0 | 0 | 7.8 | 0 | 102.5 | 0 | 304.9 | 657.7 |
| 1st Qtr | 9.2 | 22.1 | 13.8 | 3.9 | 125.7 | 23.0 | 0 | 0 | 13.3 | 0 | 191.9 | 0 | 338.8 | 741.7 |
| 2d Qtr | 11.0 | 15.9 | | 6.4 | 136.5 | 0.1 | | o | 0.1 | ő | 167.3 | o | 339.5 | 676.8 |

¹ Data are unadjusted.

² Data are f.a.s.

⁸ Data are f.o.b.

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Selected OECD Countries: Trends in Inland Oil Consumption

Thousand b/d 1972 1973 1974 1975 1976 1977 Annual 17,308 16,653 16,322 17,444 United States 1 16,367 Average 16,735 18,713 17,286 18,004 18,598 20,481 Jan 17,861 19,094 17,366 17,084 17,429 20,427 Feb 18,056 Mar 16,870 17,216 16,104 16,315 17,299 16,048 16,671 17,570 15,921 15,929 Apr 15,529 16,626 15,726 15,155 15,977 (est.) 17,252 14,801 May 15,610 16,836 (est.) 17,600 15,615 16,481 16,117 Iun 14,821 16,372 16,349 15,740 16,613 (est.) 17,697 Jul 15,806 16,642 Aug 15,936 17,499 16,550 (est.) 18,533 15,489 16,656 16,024 15,768 16,825 (est.) 17,885 Sep 16,455 17,202 17,050 16,377 17,052 Oct 17,610 18,492 17,351 15,777 18,847 Nov 20,506 18,013 18,185 Dec 18,738 17,538 Annual 1,597 1,630 1,595 1,658 Canada 1,511 Average 1,797 1,536 1,667 1,823 1,691 1,785 Jan 1,872 1,919 Feb 1,793 1,747 1,863 1,754 1.659 1,558 1,747 1,664 1,612 1,584 Mar 1,560 1,592 1,526 1,367 1,431 1,518 Apr May 1,374 1,486 1,577 1,471 1,509 1,523 1,633 1,550 1,560 Jun 1,334 1,474 1,455 1,294 1 490 1,534 1,493 1,531 1,530 Jul 1,463 1,585 1,394 1,557 1,449 Aug Sep 1,402 1,427 1,415 1,469 1,514 1,560 1,680 1,680 1,555 Oct 1,577 1,801 1,714 1,577 1,822 1,685 Nov 1,828 1,880 2,008 1,782 1,831 Dec Annual N.A. 5,000 4,872 4,568 4,786 Japan Average 5,036 4,729 4,941 5,428 N.A. 5,103 Jan N.A. 5,246 6,019 Feb 5,352 5,664 5,191 5,306 5,407 4,918 5,165 5,540 Mar N.A. 4,202 4,526 4,713 N.A. 4,737 4,706 Apr 4,218 4,568 4.313 May N.A. 4,597 4,041 4,480 4.776 4.520 4,135 4,429 N.A. Iun 4,586 4,385 4,265 4,416 4,700 Jul N.A. 4,461 Aug N.A. 4,684 4,576 4,234 4,778 4,720 4,543 4,517 N.A. Sep Oct N.A. 5.093 4,614 4,409 4,523 5,559 4,925 4,747 5,160 Nov N.A. 5,846 N.A. 5,526 5,330 5,447 Dec Annual 227 203 199 203 215 Austria Average 200 Jan 189 220 236 183 207 208 208 Feb 221 225 220 190 172 209 182 224 160 212 Mar 183 204 169 184 156 197 Apr 174 210 172 156 169 166 May 189 208 Jun 181 200 169 186 179 221 214 210 219 192 Jul 223 229 213 187 222 218 Aug 213 227 222 232 246 Sep Oct 227 **25**3 243 226 233 276 201 252 246 215 Nov 229 261 230 234 203 Dec Annual 449 485 505 440 416 Belgium/Luxembourg Average 535 **54**3 512 550 498 552 Jan 591 589 528 558 547 507 Feb 517 Mar 546 570 392 410 469 470 565 383 465 460 Apr

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Thousand b/d 1972 1973 1974 1975 1976 1977 Belgium/Luxembourg (Continued) May 454 483 419 363 357 Jun 464 463 376 366 383 346 339 ľul 359 288 308 Aug 352 367 389 331 361 Sep 479 465 478 372 425 556 534 Oct 484 442 424 Nov 563 558 427 439 532 Dec 530 503 542 508 628 Annual Denmark 301 Average 307 N.A. Ian N.A. N.A. 332 358 370 Feb N.A. N.A. N.A. 380 398 405 Mar N.A. N.A. N.A. 367 317 362 Apr N.A. N.A. N.A. 354 307 340 May N.A. N.A. N.A. 258 242 241 Jun N.A. N.A. N.A. 257 250 236 Jul N.A. N.A. N.A. 218 184 192 Aug N.A. N.A. N.A. 264 261 293 Sep N.A. N.A. 262 274 N.A. Oct N.A. N.A. N.A. 302 280 Nov N.A. N.A. N.A. 324 356 Dec N.A. N.A. N.A. 353 414 Annual France Average 1,985 2,219 2,094 1,925 2,071 2,276 2,743 2,523 Jan 2,190 2,432 2,518 Feb 2,450 2,687 2,389 2,243 2,492 2,386 Mar 2,100 2,528 2,249 1,952 2,372 2,109 1.848 2,296 1,970 2,202 Apr 2,116 2,044 May 1,743 1,890 1,915 1,640 1,795 1,846 Jun 1,597 1,685 2,103 1,642 1,603 1,717 Jul 1,444 1,566 1,703 1,491 1,624 1,349 Aug 1,441 1,495 1,506 1,300 1,668 1,390 1,950 1,932 Sep 1,996 1.785 1,966 1,789 Oct 2,106 2,482 2,045 1,917 1,908 2,593 Nov 2,332 2,260 2,077 2,204 Dec 2,574 2,768 2,492 2,658 2,687 Annual Italy Average 1,435 1,525 1,521 1,468 1,502 1,720 1,781 1,792 Jan 1,755 1,775 1,683 Feb 1,756 1,866 1,760 1,767 1,743 1,809 1,450 1,710 Mar 1,579 1,558 1,641 1,548 Apr 1,169 1,420 1,421 1,530 1,423 1,363 May 1,138 1,285 1,349 1,174 1,253 1,252 1,101 1,255 1,314 1,289 1,236 Iun 1,324 Jul 1,175 1,303 1,368 1,234 1,355 1,233 Aug 1,129 1,255 1,287 1,105 1,372 1,135 Sep 1,450 1,462 1,527 1,465 1,592 1,682 1,679 Oct 1.650 1,610 1,569 1,464 Nov 1,702 1,551 1,580 1,448 1,393 Dec 1,899 1,698 1,753 1,600 1,779 Annual Netherlands Average 507 496 444 412 487 509 584 468 480 Jan 399 521 Feb 591 586 522430 542 524 557 Mar 542 438 379 543 518 Apr 512 541 530 474 443 424 May 453 475 432 390 453 393 430 Jun 436 427 403 462 456 Jul 374 408 415 354 426 388 435 437 Aug 414 364 446 Sep 440 485 440 412 493

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Selected OECD Countries: Trends in Inland Oil Consumption (Continued)

| | | (Co | ntinued) | | | ব্যা | nousand b/d |
|-------------------------|----------------|------------|---------------------|------------|------------|-------------|-------------|
| | | 1972 | 1973 | 1974 | 1975 | 1976 | 1977 |
| Netherlands (Continued) | Oct | 515 | 594 | 472 | 440 | 469 | |
| rechemands (Continued) | Nov | 581 | 503 | 440 | 419 | 517 | |
| | Dec | 567 | 505 | 433 | 484 | 576 | |
| | Annual | | | | | | |
| Norway | Average | N.A. | N.A. | 143 | 150 | 163 | |
| ŕ | Jan | N.A. | N.A. | 155 | 142 | 161 | 177 |
| | \mathbf{Feb} | N.A. | N.A. | 154 | 171 | 180 | 202 |
| | Mar | N.A. | N.A. | 124 | 137 | 181 | 189 |
| | Apr | N.A. | N.A. | 126 | 149 | 145 | 162 |
| | May | N.A. | N.A. | 118 | 145 | 147 | 150 |
| | Jun | N.A. | N.A. | 141 | 130 | 153 | 159 |
| | Jul | N.A. | N.A. | 113 | 120 | 130 | 131 |
| | Aug | N.A. | N.A. | 125 | 140 | 146 | 156 |
| | Sep | N.A. | N.A. | 151 | 161 | 168 | |
| | Oct | N.A. | N.A. | 161 | 162 | 167 | |
| | Nov | N.A. | N.A. | 174 | 181 | 175 | |
| | Dec | N.A. | N.A. | 180 | 162 | 197 | |
| | Annual | | ~~. | 222 | 0.02 | 5 44 | |
| Spain | Average | 471 | 581 | 626 | 667 | 744 | 740 |
| | Jan | 483 | 539 | 610 | 720 | 758 | 740 727 |
| | Feb | 508 | 568 | 639 | 682 | 785 769 | 660 |
| | Mar | 461 | 564 | 571 | 625 688 | 769 742 | 634 |
| | Apr | 447 | 537 5 2 3 | 595 620 | 622 | 685 | 669 |
| | May | 444 472 | 523 530 | 608 | 610 | 714 | 672 |
| | Jun 11 | 472 457 | 466 | 630 | 624 | 755 | 677 |
| | Jul | 462 | 667 | 617 | 584 | 685 | 615 |
| | Aug | 477 | 576 | 636 | 667 | 734 | 010 |
| | Sep Oct | 459 | 669 | 677 | 713 | 742 | |
| | Nov | 500 | 646 | 653 | 706 | 780 | |
| | Dec | 515 | 681 | 650 | 735 | 782 | |
| | Annual | 315 | 001 | 000 | 100 | | |
| Sweden | Average | N.A. | 53 3 | 490 | 478 | 529 | |
| Sweden | Jan | N.A. | 603 | 521 | 511 | 565 | 606 |
| | Feb | N.A. | 555 | 415 | 547 | 530 | 600 |
| | Mar | N.A. | 540 | 427 | 479 | 539 | 545 |
| | Apr | N.A. | 506 | 441 | 532 | 450 | 499 |
| | May | N.A. | 52 4 | 495 | 392 | 395 | 466 |
| | Jun | N.A. | 420 | 464 | 511 | 410 | 409 |
| | Jul | N.A. | 387 | 423 | 362 | 382 | 377 |
| | Aug | N.A. | 455 | 463 | 459 | 483 | |
| | Sep | N.A. | 492 | 516 | 503 | 571 | |
| | Oct | N.A. | 656 | 553 | 462 | 585 | |
| | Nov | N.A. | 645 | 568 | 446 | 697 | |
| | Dec | N.A. | 618 | 581 | 538 | 740 | |
| | Annual | | | | | | |
| United Kingdom | Average | 1,954 | 1,974 | 1,857 | 1,633 | 1,603 | |
| | Jan | 2,121 | 2,315 | 2,045 | 1,981 | 1,679 | 1,830 |
| | \mathbf{Feb} | 2,401 | 2,313 | 2,127 | 1,907 | 1,865 | 1,844 |
| | Mar | 2,249 | 2,271 | 2,133 | 1,731 | 1,879 | 1,818 |
| | Apr | 2,027 | 2,038 | 1,899 | 1,826 | 1,716 | 1,670 |
| | May | 1,851 | 1,939 | 1,704 | 1,482 | 1,417 | 1,546 |
| | Jun | 1,745 | 1,697 | 1,545 | 1,416 | 1,416 | 1,454 |
| | Jul | 1,519 | 1,637 | 1,531 | 1,322 | 1,346 | 1,302 |
| | Aug | 1,527 | 1,615 | 1,513 | 1,208 | 1,276 | |
| | Sep | 1,703 | 1,727 | 1,663 | 1,501 | 1,477 | |
| | Oct | 1,959 | 2,150 | 2,049 | 1,707 | 1,544 | |
| | Nov | 2,194 | 2,258 | 2,108 | 1,723 | 1,750 | |
| | Dec | 2,132 | 1,906 | 1,983 | 1,821 | 1,869 | |

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| | | | | | | | Thousand b/d |
|--------------|----------------------|-------|-------|-------|-------|-------|--------------|
| | | 1972 | 1973 | 1974 | 1975 | 1976 | 1977 |
| | Annual | | | | | | |
| West Germany | Average | 2,521 | 2,693 | 2,408 | 2,319 | 2,507 | |
| | Jan | 2,545 | 2,868 | 2,556 | 2,183 | 2,464 | 2,389 |
| | Feb | 2,803 | 2,850 | 1,969 | 2,455 | 2,497 | 2,441 |
| | Mar | 2,525 | 2,707 | 2,173 | 2,234 | 2,747 | 2,519 |
| | Apr | 2,347 | 2,809 | 2,539 | 2,431 | 2,339 | 2,425 |
| | May | 2,335 | 2,546 | 2,403 | 2,253 | 2,320 | 2,359 |
| | Jun | 2,632 | 2,674 | 2,414 | 2,106 | 2,393 | 2,495 |
| | Jul | 2,188 | 2,196 | 2,548 | 2,319 | 2,624 | 2,381 |
| | Aug | 2,444 | 2,738 | 2,476 | 2,360 | 2,515 | 2,468 |
| | Sep | 2,487 | 2,618 | 2,473 | 2,309 | 2,521 | • |
| | Oct | 2,522 | 2,969 | 2,613 | 2,328 | 2,391 | |
| | Nov | 2,667 | 2,883 | 2,432 | 2,361 | 2,700 | |
| | Dec | 2,783 | 2,481 | 2,261 | 2,502 | 2,571 | |

¹ Including bunkers, refinery fuel, and losses.

² Principal products only.

Selected OECD Countries: Oil Stocks

Thousand Barrels, End of Month United Italy Ireland Denmark France Austria Belgium Canada States Japan 30,996 194,122 5,555 N.A. 113,193 N.A. N.A. 300,000 1,057,911 1 1973 Sep 5,490 N.A. 25,017 174,594 7,650 35,018 1,017,333 1 275,000 125,289 1974 Jan 6,037 143,876 171,229 25,849 257,000 8,358 25,404 116,060 995,365 1 Mar 163,922 196,406 6,190 28,025 31,375 N.A. 10,454 325,000 1,102,467 1 Jun 6,504 177,310 34,507 238,630 9.278 37,011 148,305 1,156,105 1 359,000 Sep 173,609 235.848 7,424 142,233 9,402 40,274 37,223 334,000 1,115,916 1 Dec 230,271 7,687 147,431 33,609 40,406 1.099,144 330,000 136,590 9,826 1975 Jan 150,124 7,439 215,365 9,220 38,902 34,595 133,805 1,076,360 296,000 Mar 7,665 169,776 203,831 34,566 10,257 36,704 314,000 140,617 1,071,150 Jun 174,010 7,599 41.420 44,238 223,942 8,913 330,000 147,939 1,147,338 Sep 195,998 7,081 N.A. 40,194 40,325 138,462 7,329 1,132,955 325,000 Dec 6,825 N.A. 39,223 182,887 1,102,282 128,356 6,877 38,508 308,000 1976 Jan 2 N.A. N.A. N.A. N.A. N.A. 290,000 121,490 N.A. 1,060,489 Mar 167,017 7,315 N.A. 132,174 6,855 41,676 31,193 1,108,703 325,000 Jun 209,692 7,877 N.A. 41.537 40.661 365,000 138,211 8,110 1,206,690 Sep 7,628 157.687 37,478 203,407 43,092 7.680 Dec 359,000 125,934 1,129,445 192,676 155,811 7,242 43,683 36,383 126,025 7,059 364,000 1977 Jan 1,064,915 154,322 188,347 7,271 33,544 42,880 1,050,507 315,000 120,857 8,358 Feb 151,110 7,110 33,361 183,303 9.074 42,880 125,757 1,086,822 327,000 Mar 166,973 187,048 7,154 32,551 332,000 122,770 9,454 43,187 1,121,008 Apr 170.983 44,085 34,128 166,710 8,497 9,373 1,171,222 129,467 358,000 May 9,388 N.A. 138,808 8,541 43,618 36,215 N.A. 1,209,500 362,000 Iun N.A. N.A. N.A. NA. 139,053 N.A. N.A. 1,239,100 356,000 Jul NA N.A. N.A. N.A. N.A. N.A. 361,000 N.A. 1,251,800 Aug N.A. N.A. N.A. N.A. N.A. N.A. N.A. 1,284,900 N.A. Sep West United Switzer-Nether-Luxemland Turkey Kingdom Germany Sweden lands Norway **Portugal** Spain bourg 172,010 N.A. 152,261 43,398 26,514 N.A. 7,125 1973 Sep N.A. N.A. 8,045 131,239 149,190 25,995 N.A. 5,745 40,449 37,668 8.446 N.A. 1974 Jan N.A. 134,816 165,549 26,382 9,979 39,128 7,840 47,414 N.A. 9,176 N.A. Mar 170,827 167,637 43,034 26,966 9,446 7,307 50,217 10,476 N.A. N.A. Ĭun 175,236 187,968 12,527 28,309 47,815 10,541 7.264 53,538 N.A. N.A. Sep 160,593 187,938 29.638 9,345 44,749 7,037 53,261 66,452 7,037 N.A. Dec 171,192 169,623 43,727 29,025 8,234 6,344 40.449 1975 Jan 65,269 8,650 1,708 158,169 8,088 145,248 26,928 50,611 39,785 9,672 6,110 1,745 61,430 Mar 161,520 10,220 147,949 27,652 48,633 34.675 9,789 5,928 2,102 62.941 Jun 154,921 184.267 29,623 11,213 51,677 40,114 63,758 10,986 6,446 Sep 2,139 186,668 N.A. 138,941 50,201 43,180 29.762 60,086 11,614 8,541 Dec 2,044 184,829 29,200 N.A. N.A. 42.742 2.015 53,195 12,410 5,533 48,728 1976 Jan 175,483 N.A. 37,668 27,528 N.A. N.A. 7.234 9,570 Mar 1.832 52,932 N.A. 135.291 189,092 28,587 11,154 6,658 N.A. 37,194 54,560 Iun 1,971 201,845 29,799 N.A. 140,686 50,582 37,194 12,038 6.066 1,986 61,656 Sep 218,540 136,065 9.541 12,468 8.176 N.A. 48,326 31,178 2,008 56,568 Dec 32,047 8,636 133,320 217,474 45,954 9,855 61,320 2.008 53.618 12,673 1977 Jan 217,620 130,378 31,383 7,884 60,240 42,012 9,526 9,162 52,772 1,964 Feb 31,032 7,169 124,217 211,423 66,576 40,478 9,833 7,205 53,078 1,978 Mar 215,394 121,976 75,154 40,260 31,463 9,716 2.015 54,013 11,198 7,650 Apr 125,531 214,562 11,972 46,362 31,901 64,860 11,665 7942 1.993 59,546 May 129,020 219,781 46,070 33,514 10,731 12,695 7,753 67,240 58,765 2,022 Iun

¹ Estimated.

² As of January 1977, US Bureau of Mines changed the reporting of crude oil stocks to include foreign crude oil not yet received at refineries. Figures for 1976 and 1977 have been computed on the new basis.

Estimated OECD Oil Consumption 1

| | | | Million b/d | | | | |
|------|---------|--------|-------------|---------|--|--|--|
| | 1st Qtr | 2d Qtr | 3d Qtr | 4th Qtr | | | |
| 1973 | 43.2 | 37.6 | 36.8 | 42.4 | | | |
| 1974 | 39.6 | 35.9 | 36.3 | 39.0 | | | |
| 1975 | 37.9 | 34.2 | 34.2 | 37.6 | | | |
| 1976 | 39.9 | 35.7 | 36.2 | 41.1 | | | |
| 1977 | 42.5 | 37.1 | | | | | |

Excluding Australia and New Zealand, and including US refinery gain.

Western Europe: Oil Spot Market Prices

US \$ per Barrel

| | | F.O.B. Rotterdam 1 | | | | | F.O.B. Italy ² | | | | |
|---------|--------------|--------------------|---------|-----------------------|--------------|----------------|---------------------------|-----------------------|--|--|--|
| | Heavy I | Fuel Oil | | | Heavy l | Fuel Oil | _ | | | | |
| | 1% Sulfur | 3.5% Sulfur | Gas Oil | Gasoline (Premium) | 1% Sulfur | 3.5% Sulfur | Gas Oil | Gasoline (Premium) | | | |
| 1974 | | | | | | | 10.05 | 10.00 | | | |
| 1st Qtr | 14.02 | 12.77 | 15.13 | 19.76 | 13.87 | 12.88 | 13.95 | 19.26 | | | |
| 2d Otr | 10.15 | 9.70 | 11.77 | 19.61 | 9.90 | 9.35 | 10.93 | 18.77 | | | |
| 3d Qtr | 9.87 | 9.24 | 12.34 | 13.92 | 9.61 | 9.23 | 11.96 | 13.15 | | | |
| 4th Qtr | 11.09 | 10.11 | 12.33 | 13.26 | 10.29 | 9.96 | 11.68 | 12.08 | | | |
| 1975 | | | | | | | | 10.70 | | | |
| 1st Qtr | 11.97 | 10.49 | 11.18 | 14.20 | 10.57 | 10.24 | 11.10 | 13.23 | | | |
| 2d Qtr | 10.61 | 9.68 | 12.90 | 15.95 | 10.40 | 10.16 | 12.24 | 15.28 | | | |
| 3d Qtr | 9.33 | 8.62 | 14.40 | 15.02 | 8.81 | 8.30 | 13.87 | 14.64 | | | |
| 4th Qtr | 9.53 | 8.33 | 14.84 | 15.85 | 8.99 | 8.38 | 14.56 | 15.24 | | | |
| 1976 | | | | | | | | | | | |
| 1st Qtr | 10.39 | 9.84 | 13.79 | 17.10 | 9.95 | 9.65 | 13.59 | 16.48 | | | |
| 2d Qtr | 10.40 | 9.56 | 14.08 | 19.24 | 10.18 | 9.73 | 13.90 | 18.30 | | | |
| 3d Qtr | 11.06 | 9.99 | 14.40 | 18.02 | 10.34 | 10.06 | 14.19 | 17.37 | | | |
| 4th Qtr | 12.07 | 10.76 | 14.57 | 17.44 | 11.64 | 10.85 | 14.48 | 16.83 | | | |
| 1977 | | | | | | | | | | | |
| Jan | 13.51 | 12.21 | 16.03 | 16.94 | 13.75 | 12.30 | 15.70 | 16.51 | | | |
| Feb | 13.52 | 11.88 | 15.83 | 16.80 | 13.99 | 12.30 | 16.39 | 16.65 | | | |
| Mar | 12.71 | 11.04 | 15.54 | 16.71 | 12.85 | 11.59 | 15.57 | 16.51 | | | |
| Apr | 12.49 | 10.81 | 15.64 | 17.57 | 12.10 | 10.87 | 15.62 | 16.82 | | | |
| May | 12.62 | 10.70 | 15.81 | 17.46 | 12.22 | 10.75 | 15.74 | 16.48 | | | |
| Jun | 12.41 | 10.80 | 15.78 | 16.74 | 12.42 | 11.03 | 15.76 | 16.14 | | | |
| Jul | 12.50 | 11.26 | 15.94 | 16.69 | 12.30 | 11.18 | 15.76 | 15.94 | | | |
| Aug | 12.47 | 11.36 | 15.61 | 16.63 | 12.43 | 11.34 | 15.73 | 15.95 | | | |
| Sep | 12.44 | 11.38 | 15.45 | 16.48 | 12.54 | 11.35 | 15.60 | 15.72 | | | |
| Oct | 12.57 | 11.58 | 15.60 | 16.51 | 12.54 | 11.64 | 15.62 | 15.58 | | | |

¹ Barge lot—minimum 3,500 barrels.

² Cargo lot—minimum 130,000 barrels.

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| | | ular oline | | nium oline | Diesel Fuel | | | |
|----------------------------|---|-----------------|------------|--------------------------|-----------------|----------|--|--|
| | Price 1 | Tax | Price 1 | Tax | Price 1 | Tax | | |
| United States | | | | | | | | |
| 1973 Oct 1974 Jan | 40 46 | 12 | 44 | 12 | 23 | 12 | | |
| Jun | 55 | 12 12 | 50 59 | 12 12 | 32 36 | 12 12 | | |
| 1975 Jan Jun | 53 | 12 | 57 | 12 | 50 | 12 | | |
| 1976 Jan | 57 58 | $\frac{12}{12}$ | 61 63 | 12 12 | 51 52 | 12 12 | | |
| Jun 1977 Jan | 59 | 12 | 64 | 12 | 52 | 12 | | |
| Jun | 60 63 | 12 12 | 65 69 | 12 12 | 54 57 | 12 12 | | |
| Jul | 63 | 12 | 69 | 12 | 57 | 12 | | |
| Japan 1973 Oct | 88 | 39 | 105 | 39 | 48 | 21 | | |
| 1974 Jan | 115 | 39 | 133 | 39 | 54 | 21 | | |
| Jun 1975 Jan | 137 152 | 47 47 | 155 170 | 47 47 | $\frac{71}{79}$ | 21 | | |
| Ĵun | 155 | 47 | 172 | 47 | 78 82 | 21 21 | | |
| 1976 Jan Jun | 156 157 | 47 47 | 174 | 47 | 86 | 21 | | |
| 1977 Jan | 167 | 59 | 175 185 | 47 59 | 93 93 | 27 27 | | |
| Jun West Germany | 167 | 59 | 185 | 5 9 | 88 | 25 | | |
| 1973 Oct | 112 | 81 | 124 | 82 | 112 | 76 | | |
| 1974 Jan | 137 | 83 | 149 | 84 | 139 | 79 | | |
| Jun 1975 Jan | 137 1 2 9 | 83 84 | 149 140 | 84 84 | 139 137 | 79 76 | | |
| Jun | 129 | 84 | 143 | 84 | 137 | 76 | | |
| 1976 Jan Jun | 141 144 | 84 84 | 151 154 | 85 85 | 141 | 79 70 | | |
| 1977 Jan | 144 | 84 | 154 | 84 | 141 141 | 79 79 | | |
| Jun Sep | 141 140 | 84 84 | 150 | 86 | 140 | 79 | | |
| France ² | 140 | 04 . | 149 | 86 | 140 | 79 | | |
| 1973 Oct 1974 Jan | 95 123 | 65 | 103 | 69 | 66 | 39 | | |
| Jun | 123 123 | 69 69 | 133 133 | 73 73 | 79 79 | 41 41 | | |
| 1975 Jan | 129 | 73 | 139 | 77 | 88 | 38 | | |
| Jun 1976 Jan | 129 134 | 73 75 | 139 145 | 77 80 | 85 95 | 46 47 | | |
| Jun | 134 | 76 | 149 | 80 | 95 95 | 48 | | |
| 1977 Jan Jun | 159 167 | 97 101 | 171 180 | 103 108 | 99 | 48 | | |
| Sep | 167 | 101 | 180 | 108 | 109 109 | 54 54 | | |
| United Kingdom 1973 Oct | 51 | 32 | 53 | O.B | ~1 | | | |
| 1974 Jan | 55 | 32 | 53 57 | 3 2 3 2 | 51 55 | 32 32 | | |
| Jun 1975 Jan | 76 | 39 | 79 | 39 | 78 | 39 | | |
| Ĵun | 100 100 | 39 39 | 104 104 | 39 39 | 79 78 | 39 39 | | |
| 1976 Jan | 107 | 54 | 109 | 53 | 88 | 39 | | |
| Jun 1977 Jan | 107 11 2 | 54 55 | 109 115 | 54 56 | 88 111 | 39 | | |
| Jun | 119 | 64 | 122 | 64 | 120 | 52 59 | | |
| Sep Italy ² | 109 | 55 | 112 | 55 | 120 | 59 | | |
| 1973 Oct | 75 | 5 6 | 79 | 58 | 41 | 26 | | |
| 1974 Jan Jun | 81 105 | 57 69 | 85 | 59 | 48 | 27 | | |
| 1975 Jan | 122 | 69 | 111 128 | 70 87 | 58 58 | 27 27 | | |
| Jun 1976 Jan | 122 | 83 | 128 | 87 | 60 | 28 | | |
| Jun | 128 164 | 84 107 | 134 171 | 87 110 | 62 70 | 27 29 | | |
| 1977 Jan | 205 | 147 | 213 | 153 | 72 | 29 | | |
| Jun Sep | 205 205 | 148 148 | 213 213 | 153 153 | 66 66 | 19 19 | | |
| Canada 3 | | | | 100 | 00 | 10 | | |
| 1973 Oct 1974 Jan | 44 44 | 17 17 | 48 48 | 17 17 | 48 48 | 23 | | |
| Jun | 51 | 17 | 55 | 17 | 55 | 23 23 | | |
| 1975 Jan Jun | 52 54 | 17 17 | 56 58 | 17 | 56 | 23 | | |
| 1976 <u>J</u> an | 66 | 25 | 58 70 | 17 25 | 56 61 | 23 31 | | |
| Jun 1977 Jan | 66 70 | 25 25 | 70 | 25 | 62 | 31 | | |
| Mar | $\begin{array}{c} 70 \\ 72 \end{array}$ | 25 25 | 74 76 | 25 25 | 65 68 | 31 31 | | |
| | | | - | | | | | |

OPEC Countries: Crude Oil Prices

US \$ per Barrel

| | 4th Qtr 1975 | | 1970 | 1976 1st | | 1st Qtr 1977 | | 2d Qtr 1977 | | July 1977 | |
|--------------------------------|------------------------------|--------------------------|------------------------------|--------------------------|------------------------------|--------------------------|------------------------------|--------------------------|------------------------------|--------------------------|--|
| • | Operating Company Cost | Direct Sales Price | |
| OPEC average ³ | 11.41 | 11.75 | 11.48 | 11.77 | 12.45 | 12.74 | 12.46 | 12.76 | 12.70 | 13.02 | |
| Saudi Arabia | | | | | | | | | | | |
| Light 34° API 1.70% sulfur | 11.27 | 11.51 | 11.27 | 11.51 | 11.84 | 12.09 | 11.84 | 12.09 | 12.45 | 12.70 | |
| Berri 39° API 1.16% sulfur | 11.62 | 11.87 | 11.62 | 11.87 | 12.22 | 12.48 | 12.22 | 12.48 | 12.95 | 13.22 | |
| Heavy 27° API 2.85% sulfur | 10.90 | 11.14 | 10.85 | 11.08 | 11.13 | 11.37 | 11.13 | 11.37 | 11.77 | 12.02 | |
| Medium 31° API 2.40% sulfur | 11.09 | 11.33 | 11.07 | 11.30 | 11.44 | 11.69 | 11.44 | 11.69 | 12.07 | 12.32 | |
| Iran | | | | | | | | | | | |
| Light 34° API 1.35% sulfur | 11.40 | 11.62 | 11.40 | 11.62 | 12.59 | 12.81 | 12.59 | 12.81 | 12.59 | 12.81 | |
| Heavy 31° API 1.60% sulfur | 11.28 | 11.50 | 11.15 | 11.37 | 12.27 | 12.49 | 12.27 | 12.49 | 12.27 | 12.49 | |
| Iraq 35° API 1.95% sulfur | 11.21 | 11.43 | 11.46 | 11.46 | 12.62 | 12.62 | 12.60 | 12.60 | 12.60 | 12.60 | |
| Nigeria 34° API 0.16% sulfur | 12.11 | 12.51 | 12.64 | 12.93 | 13.91 | 14.22 | 14.17 | 14.52 | 14.17 | 14.52 | |
| UAE 39° API 0.75% sulfur | 11.62 | 11.92 | 11.62 | 11.92 | 12.08 | 12.50 | 12.08 | 12.50 | 12.73 | 13.26 | |
| Kuwait 31° API 2.50% sulfur 4 | 11.15 | 11.30 | 11.11 | 11.26 | 12.22 | 12.37 | 12.22 | 12.37 | 12.22 | 12.37 | |
| Libva 40° API 0.22% sulfur | 12.08 | 12.32 | 12.21 | 12.47 | 13.68 | 13.92 | 13.68 | 13.92 | 13.92 | 14.20 | |
| Venezuela 26° API 1.52% sulfur | | N.A. | 11.13 | 11.33 | 12.52 | 12.72 | 12.52 | 12.72 | 12.52 | 12.72 | |
| Indonesia 35° API 0.09% sulfur | | 12.80 | 11.10 | 12.80 | 12.15 | 13.55 | 12.15 | 13.55 | 12.15 | 13.55 | |
| Algeria 42° API 0.10% sulfur | 12.62 | 12.75 | 13.01 | 13.01 | 14.29 | 14.29 | 14.29 | 14.29 | 14.45 | 14.45 | |
| Oatar 40° API 1.17% sulfur | 11.54 | 11.85 | 11.54 | 11.85 | 12.88 | 13.19 | 12.88 | 13.19 | 12.88 | 13.19 | |
| Gabon 29° API 1.26% sulfur | 9.23 | 10.50 | 10.29 | 11.55 | 10.45 | 11.55 | 11.23 | 12.60 | 11.23 | 12.60 | |
| Ecuador 28° API 0.93% sulfur | 10.41 | 11.70 | 10.23 | 11.46 | 10.43 | 11.46 | N.A. | 13.00 | N.A. | 13.00 | |
| Ecuador 20° API 0.93% suitur | 10.41 | 11.70 | 10.01 | 11.40 | 10.01 | 11.40 | IN.Th. | 10.00 | 14.Ω. | 10.00 | |

¹ Total average f.o.b. costs paid by present or former concessionaires.

² F.o.b. prices set by the government for direct sales and, in most cases, for the producing company buy-back oil.

⁸ Weighted by the volume of production.

⁴ A 10-cent-per-barrel discount will be offered to buyers provided they meet their minimum contractual lifting volumes for second half 1977. The discount will be credited to the lifting companies' accounts beginning in first quarter 1978.

USSR: Crude Oil Production 1

| | Million b/d |
|------|-------------|
| 1970 | 7.06 |
| 1971 | 7.54 |
| 1972 | 8.01 |
| 1973 | 8.58 |
| 1974 | 9.18 |
| 1975 | 9.82 |
| 1976 | 10.37 |
| 1977 | |
| Jan | 10.64 |
| Feb | 10.69 |
| Mar | 10.83 |
| Apr | 10.85 |
| May | 10.86 |
| Jun | 10.93 |
| Jul | 10.95 |
| Aug | 10.97 |

¹ Including natural gas liquids.

USSR: Regional Production of Crude Oil 1

| | | | | | | M | lillion b/d |
|------------------|------|------|------|------|------|------|-------------|
| | 1970 | 1971 | 1972 | 1973 | 1974 | 1975 | 1976 2 |
| Total | 7.06 | 7.54 | 8.01 | 8.58 | 9.18 | 9.82 | 10.4 |
| Urals-Volga | 4.17 | 4.23 | 4.31 | 4.40 | 4.44 | 4.50 | 4.5 |
| West Siberia | 0.63 | 0.90 | 1.25 | 1.75 | 2.33 | 2.96 | 3.6 |
| Central Asia | 0.58 | 0.66 | 0.71 | 0.76 | 0.79 | 0.81 | 0.8 |
| Azerbaydzhan SSR | 0.40 | 0.38 | 0.37 | 0.36 | 0.36 | 0.34 | 0.3 |
| North Caucasus | 0.68 | 0.72 | 0.69 | 0.59 | 0.53 | 0.47 | 0.4 |
| Ukrainian SSR | 0.27 | 0.28 | 0.28 | 0.27 | 0.25 | 0.23 | 0.2 |
| Komi ASSR | 0.11 | 0.12 | 0.13 | 0.13 | 0.14 | 0.14 | 0.2 |
| Belorussia SSR | 0.08 | 0.11 | 0.12 | 0.14 | 0.16 | 0.16 | 0.2 |
| Far East | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.04 | Negl. |
| Other | 0.09 | 0.09 | 0.10 | 0.13 | 0.13 | 0.17 | 0.1 |

¹ Including natural gas liquids.

USSR: Imports of Oil

| | | | | | | Tho | ısand b/d |
|----------------------|------|------|------|------|------|------|-----------|
| | 1970 | 1971 | 1972 | 1973 | 1974 | 1975 | 1976 |
| Total Middle East | 90 | 130 | 180 | 290 | 110 | 150 | 128 |
| Egypt | 40 | 40 | 20 | 4 | 3 | 5 | 3 |
| Iraq | 0 | 0 | 80 | 220 | 78 | 108 | 116 |
| Other | 50 | 90 | 80 | 66 | 29 | 37 | 9 |

² Preliminary.

USSR: Exports of Oil

| | | | Thousand b/d | | | | |
|---------------------------|-------|-------|--------------|-------|-------|-------|-------|
| | 1970 | 1971 | 1972 | 1973 | 1974 | 1975 | 1976 |
| Total | 1,920 | 2,110 | 2,140 | 2,380 | 2,340 | 2,600 | 2,970 |
| Other Communist countries | 1,010 | 1,110 | 1,200 | 1,350 | 1,440 | 1,550 | 1,680 |
| Eastern Europe | 805 | 895 | 975 | 1,100 | 1,180 | 1,260 | 1,370 |
| Asia | 30 | 25 | 20 | 20 | 30 | 40 | 40 |
| Cuba | 120 | 130 | 140 | 150 | 155 | 160 | 175 |
| Yugoslavia | 55 | 60 | 65 | 80 | 75 | 90 | 95 |
| Free World countries | 910 | 1,000 | 940 | 1,030 | 900 | 1,050 | 1,290 |
| North America | 5 | 0 | 10 | 30 | 20 | 15 | 23 |
| Canada | 0 | 0 | 0 | 0 | 3 | 5 | 2 |
| United States | 5 | 0 | 10 | 30 | 17 | 10 | 21 |
| Western Europe | 760 | 830 | 815 | 880 | 750 | 880 | 1,102 |
| Finland | 155 | 170 | 170 | 200 | 180 | 175 | 190 |
| France | 50 | 90 | 60 | 105 | 30 | 70 | 117 |
| Italy | 205 | 180 | 170 | 175 | 135 | 135 | 240 |
| Netherlands | 30 | 35 | 50 | 65 | 60 | 60 | 53 |
| Sweden | 95 | 90 | 90 | 65 | 60 | 70 | 55 |
| West Germany | 125 | 120 | 125 | 115 | 125 | 150 | 145 |
| Other | 100 | 145 | 150 | 155 | 160 | 220 | 302 |
| Near and Middle East | 60 | 60 | 50 | 30 | 30 | 45 | 56 |
| Egypt | 30 | 32 | 30 | 7 | 4 | 5 | 5 |
| Greece | 20 | 20 | 18 | 16 | 20 | 38 | 40 |
| Other | 10 | 8 | 2 | 7 | 6 | 2 | 11 |
| Africa | 25 | 30 | 35 | 35 | 23 | 20 | 23 |
| Ghana | 10 | 12 | 13 | 12 | 6 | 3 | 5 |
| Morrocco | 14 | 17 | 19 | 19 | 13 | 13 | 13 |
| Other | 1 | 1 | 3 | 4 | 4 | 4 | 5 |
| Asia | 60 | 80 | 30 | 55 | 52 | 60 | 65 |
| India | 5 | 10 | 8 | 10 | 20 | 25 | 22 |
| Japan | 54 | 66 | 20 | 41 | 25 | 26 | 35 |
| Other | 1 | 4 | 2 | 4 | 7 | 9 | 8 |
| Latin America | 0 | 0 | 0 | 0 | 25 | 30 | 21 |
| Brazil | 0 | 0 | 0 | 0 | 25 | 30 | 21 |

USSR: Oil Consumption

| | Million b/d |
|------|-------------|
| 1970 | 5.15 |
| 1971 | 5.46 |
| 1972 | 5.92 |
| 1973 | 6.33 |
| 1974 | 6.79 |
| 1975 | 7.20 |
| 1976 | 7.55 |
| | |

USSR: Natural Gas Production Million cm/d

| u |
|-------|
| 542.3 |
| 581.9 |
| 604.9 |
| 647.5 |
| 713.8 |
| 792.6 |
| 876.0 |
| |
| 958.1 |
| 971.4 |
| 958.1 |
| 933.3 |
| 912.9 |
| 903.3 |
| 900.0 |
| 909.7 |
| |

USSR: Regional Production of Natural Gas

| | | | | | | Millio | on cm/d |
|------------------------------|-------|-------|--------------|-------|-------|--------------------|---------|
| | 1970 | 1971 | 1972 | 1973 | 1974 | 1975 1 | 1976 * |
| Total | 542.3 | 581.9 | 604.9 | 647.5 | 713.8 | 792.6 | 876.0 |
| Central Asia | 131.7 | 148.1 | 162.8 | 196.0 | 226.0 | 260.0 ¹ | 285.6 |
| Ukrainian SSR | 166.8 | 177.0 | 184.1 | 186.6 | 187.2 | 188.2^{-1} | 187.7 |
| North Caucasus | 104.8 | 99.1 | 82 .1 | 70.8 | 68.0 | 65.1 | 60.0 s |
| West Siberia | 26.5 | 26.5 | 31.1 | 45.0 | 67.7 | 103.0 | 131.1 |
| Komi ASSR | 17.0 | 27.5 | 36.4 | 38.2 | 46.7 | 50.7 ¹ | 53.6 |
| Azerbaydzhan SSR | 15.0 | 15.9 | 18.7 | 22.9 | 24.9 | 27.1 1 | 30.1 |
| Urals-Voga and other produc- | | | | | | | |
| ing regions in the RSFSR | 80.5 | 87.8 | 89.7 | 88.0 | 93.3 | 98.5 1 | 127.9 |

¹ Revised.

USSR: Natural Gas Trade

| | | Million cm/d | | | | | |
|----------------|------|--------------|-------------|------|------|------|------|
| | 1970 | 1971 | 1972 | 1973 | 1974 | 1975 | 1976 |
| Exports | 9.0 | 12.5 | 13.9 | 18.7 | 38.5 | 53.0 | 70.4 |
| Eastern Europe | 6.4 | 8.6 | 9.4 | 13.3 | 23.4 | 31.0 | 36.7 |
| Bulgaria | 0 | 0 | 0 | 0 | 0.8 | 3.2 | 6.1 |
| Czechoslovakia | 3.7 | 4.5 | 5 .3 | 6.5 | 8.9 | 10.1 | 11.7 |
| East Germany | 0 | 0 | 0 | 2.1 | 7.9 | 9.1 | 9.2 |
| Hungary | 0 | 0 | 0 | 0 | 0 | 1.7 | 2.7 |
| Poland | 2.7 | 4.1 | 4.1 | 4.7 | 5.8 | 6.9 | 7.0 |
| Western Europe | 2.6 | 3.9 | 4.5 | 5.4 | 15.1 | 22.0 | 33.7 |
| Austria | 2.6 | 3.9 | 4.5 | 4.4 | 5.8 | 5.1 | 7.6 |
| Finland | 0 | 0 | 0 | 0 | 1.2 | 2.0 | 2.4 |
| France | 0 | 0 | 0 | 0 | 0 | 0 | 2.7 |
| Italy | 0 | 0 | 0 | 0 | 2.2 | 6.4 | 10.1 |
| West Germay | 0 | 0 | 0 | 1.0 | 5.9 | 8.5 | 10.9 |
| Imports | 9.7 | 22.3 | 30.2 | 31.3 | 32.7 | 34.0 | 32.2 |
| Afghanistan | 7.1 | 6.9 | 7.8 | 7.5 | 7.8 | 7.8 | 6.8 |
| Iran | 2.6 | 15.4 | 22.4 | 23.8 | 24.9 | 26.2 | 25.4 |

² Preliminary.

³ Estimate based on average rate of decline during 1970-75.

USSR: Consumption of Natural Gas

| | Million cm/d |
|------|--------------|
| 1970 | 543.0 |
| 1971 | 591.7 |
| 1972 | 621.2 |
| 1973 | 660.1 |
| 1974 | 708.0 |
| 1975 | 773.6 |
| 1976 | 837.8 |
| = | |

Eastern Europe: Oil Production and Consumption

| | | | | | - | Thousand b/d | | |
|----------------|-------|-------|-------|-------|-------|------------------|------|--|
| | 1970 | 1971 | 1972 | 1973 | 1974 | 1975 | 1976 | |
| Production | 384 | 393 | 404 | 410 | 417 | 423 | 429 | |
| Bulgaria | 7 | 6 | 5 | 4 | 3 | 2 | 2 | |
| Czechoslovakia | 4 | 4 | 4 | 3 | 3 | 3 | 2 | |
| East Germany | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| Hungary | 39 | 39 | 40 | 40 | 40 | 40 | 43 | |
| Poland | 8 | 8 | 7 | 8 | 11 | 11 | 9 | |
| Romania | 268 | 276 | 283 | 286 | 290 | 292 | 294 | |
| Yugoslavia | 57 | 59 | 64 | 68 | 69 | 74 | 78 | |
| Consumption | 1,236 | 1,385 | 1,525 | 1,797 | 1,822 | 1,977 | N.A. | |
| Bulgaria | 179 | 208 | 218 | 244 | 262 | 284 1 | N.A. | |
| Czechoslovakia | 207 | 236 | 256 | 294 | 308 | 330 1 | N.A. | |
| East Germany | 191 | 209 | 272 | 293 | 297 | 332 ¹ | N.A. | |
| Hungary | 128 | 145 | 163 | 179 | 186 | 204 | N.A. | |
| Poland | 170 | 192 | 214 | 266 | 259 | 280 | N.A. | |
| Romania | 207 | 227 | 239 | 270 | 276 | 310 1 | N.A. | |
| Yugoslavia | 154 | 168 | 163 | 251 | 234 | 237 | N.A. | |

¹ Estimated.

Eastern Europe: Oil Trade

| | | | | | | Thousand b/d |
|--------------------|-------|-------|-------|-----------------|-------|----------------|
| | 1970 | 1971 | 1972 | 1973 | 1974 | 1975 (Est.) |
| Crude Oil 1 | | | | | | |
| Imports | 879 | 1,013 | 1,171 | 1,401 | 1,445 | 1,550 |
| USSR | 679 | 800 | 921 | 1,044 | 1,118 | 1,214 |
| OPEC | 102 | 117 | 107 | 233 | 270 | 287 |
| Iraq | 40 | 53 | 28 | 53 | 86 | 146 |
| Iran | 62 | 64 | 71 | 94 | 63 | 14 |
| Algeria | . 0 | 0 | 6 | 0 | 5 | 14 |
| Libya | 0 | Negl. | 2 | . 0 | 4 | 9 |
| Kuwait | 0 | 0 | 0 | 4 | ō | 0 |
| Other OPEC | 0 | 0 | 0 | 82 ² | 112 2 | 104 ² |
| Other Non-OPEC | 98 | 96 | 143 | 124 | 57 | 49 |
| Belgium | 0 | 0 | 0 | 0 | 6 | 4 |
| West Germany | 0 | 0 | 0 | 6 | 4 | Ô |
| Netherlands | 0 | 0 | 0 | 0 | 2 | 11 |
| Syria | Negl. | 0 | 7 | 3 | Negl. | 5 |
| France | 0 | 7 | 1 | 0 | 0 | 0 |
| Other | 98 | 89 | 135 | 115 | 45 | 29 |
| Petroleum products | | | | | | |
| Imports | 166 | 152 | 158 | 175 | 176 | 138 |
| Bulgaria | 58. | 51 | 47 | 47 | 48 | 22 |
| Czechoslovakia | 22 | 20 | 21 | 25 | 27 | 20 |
| East Germany | 2 | 4 | 11 | 2 | 2 | 2 |
| Hungary | 19 | 15 | 13 | 18 | 17 | 13 |
| Poland | 48 | 45 | 47 | 61 | 60 | 63 |
| Yugoslavia | 17 | 17 | 19 | 22 | 22 | 18 |
| Exports | 200 | 179 | 218 | 201 | 233 | 225 |
| Czechoslovakia | 15 | 18 | 20 | 13 | 10 | 13 |
| East Germany | 26 | 20 | 47 | 48 | 58 | 48 |
| Hungary | 17 | 7 | 11 | 10 | 7 | 4 |
| Poland | 26 | 21 | 34 | 27 | 24 | 32 |
| Romania | 107 | 107 | 102 | 99 | 129 | 124 |
| Yugoslavia | 9 | 6 | 4 | 4 | 5 | 4 |

¹ Crude oil exports are negligible.

Eastern Europe: Natural Gas Production and Consumption

| | | | | | | Million cm/d |
|----------------|--------|--------|--------|--------|--------|--------------------|
| | 1970 | 1971 | 1972 | 1973 | 1974 | 1975 |
| Production | 101.86 | 111.93 | 122.65 | 134.98 | 140.20 | 144.22 |
| Bulgaria | 1.30 | 0.90 | 0.60 | 0.61 | 0.49 | 0.40 1 |
| Czechoslovakia | 2.22 | 2.11 | 1.81 | 1.73 | 1.64 | 1.64 |
| East Germany | 3.38 | 7.67 | 13.70 | 19.18 | 21.92 | 21.92 1 |
| Hungary | 9.50 | 10.15 | 11.26 | 13.21 | 13.96 | 14.24 |
| Poland | 14.20 | 14.75 | 15.95 | 16.51 | 15.72 | 16.28 |
| Romania | 68.58 | 73.20 | 75.93 | 80.10 | 82.51 | 85.49 ¹ |
| Yugoslavia | 2.68 | 3.15 | 3.40 | 3.64 | 3.96 | 4.25 |
| Consumption | 108.48 | 120.46 | 131.74 | 148.10 | 161.98 | 169.13 |
| Bulgaria | 1.30 | 0.90 | 0.60 | 0.61 | 1.33 | 1.76 ' |
| Czechoslovakia | 5.70 | 6.32 | 6.85 | 7.99 | 9.01 | 9.85 |
| East Germany | 3.82 | 7.97 | 13.70 | 21.34 | 29.70 | 30.95 1 |
| Hungary | 10.05 | 10.72 | 11.81 | 13.76 | 14.51 | 14.79 |
| Poland | 16.95 | 18.83 | 20.06 | 21.19 | 21.52 | 22.57 |
| Romania | 68.03 | 72.65 | 75.38 | 79.57 | 81.95 | 84.96 1 |
| Yugoslavia | 2.63 | 3.07 | 3.34 | 3.64 | 3.96 | 4.25 |

¹ Estimated.

² Including data that cannot be distributed by country of origin.

Eastern Europe: Natural Gas Trade

| | Eastern Europe, iv | aturur Or | | | | Million c |
|----------------|--------------------|-----------|-------|-------|-------|-----------|
| | 1970 | 1971 | 1972 | 1973 | 1974 | 1975 |
| Imports | 7.46 | 9.50 | 10.02 | 13.92 | 22.34 | 25.44 |
| Bulgaria | 0 | 0 | 0 | 0 | 0.84 | 1.36 |
| Czechoslovakia | 3.72 | 4.55 | 5.36 | 6.53 | 7.37 | 8.21 |
| East Germany | 0.44 | 0.30 | Negl. | 2.16 | 7.78 | 9.03 |
| Hungary | 0.55 | 0.57 | 0.55 | 0.55 | 0.55 | 0.55 |
| Poland | 2.75 | 4.08 | 4.11 | 4.68 | 5.80 | 6.29 |
| Exports | 0.84 | 0.97 | 0.93 | 0.80 | 0.56 | 0.53 |
| Czechoslovakia | 0.24 | 0.34 | 0.32 | 0.27 | Negl. | 0 |
| Romania | 0.55 | 0.55 | 0.55 | 0.53 | 0.56 | 0.53 1 |
| Yugoslavia | 0.05 | 0.08 | 0.06 | Negl. | 0 | 0 |
| 1 1150014 114 | 0.84 | 0.97 | 0.93 | 0.80 | 0.56 | 0.53 |

¹ Estimated.

PRC: Oil Production, Consumption, and Trade

| Th | ous | ane | 1 1 | h / | d |
|------|-----|-----|-----|-----|---|
| 3 11 | wus | am | | 91 | u |

| | 1970 | 1971 | 1972 | 1973 | 1974 | 1975 | 1976 |
|-----------------------|------|------|------|-------|-------|-------|-------|
| ~ 1 017 1 1 | | 730 | 860 | 1.090 | 1,310 | 1,490 | 1,670 |
| Crude Oil Production | 570 | | | 920 | 1,030 | 1,300 | 1,500 |
| Crude Oil Consumption | 500 | 630 | 740 | 920 | 1,000 | 1,000 | 1,000 |
| Oil Trade | | | | | | | |
| Crude Exports | | | | | | | |
| Japan ¹ | 0 | 0 | 0 | 20 | 80 | 164 | 136 |
| Philippines 1 | 0 | 0 | 0 | 0 | 2.8 | 10.0 | 10.0 |
| Thailand ¹ | 0 | 0 | 0 | 0 | 0 | 5.0 | 0 |
| Product Exports | | | | | | | |
| North Korea | 10 | 10 | 10 | 5 | 5 | 5 | 5 |
| Thailand 1 | 0 | 0 | 0 | 0 | 0 | 0 | 6.2 |
| Vietnam | 20 | 20 | 20 | 8 | 9 | 11 | 11 |

Data represent contracts, not all of which were delivered.

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| | 5 | DDCI |
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| | 34 | Ch/D/I |
| | 35 | Ch/D/D |
| | 36 | Ch/D/C |
| | 37 | Ch/D/S |
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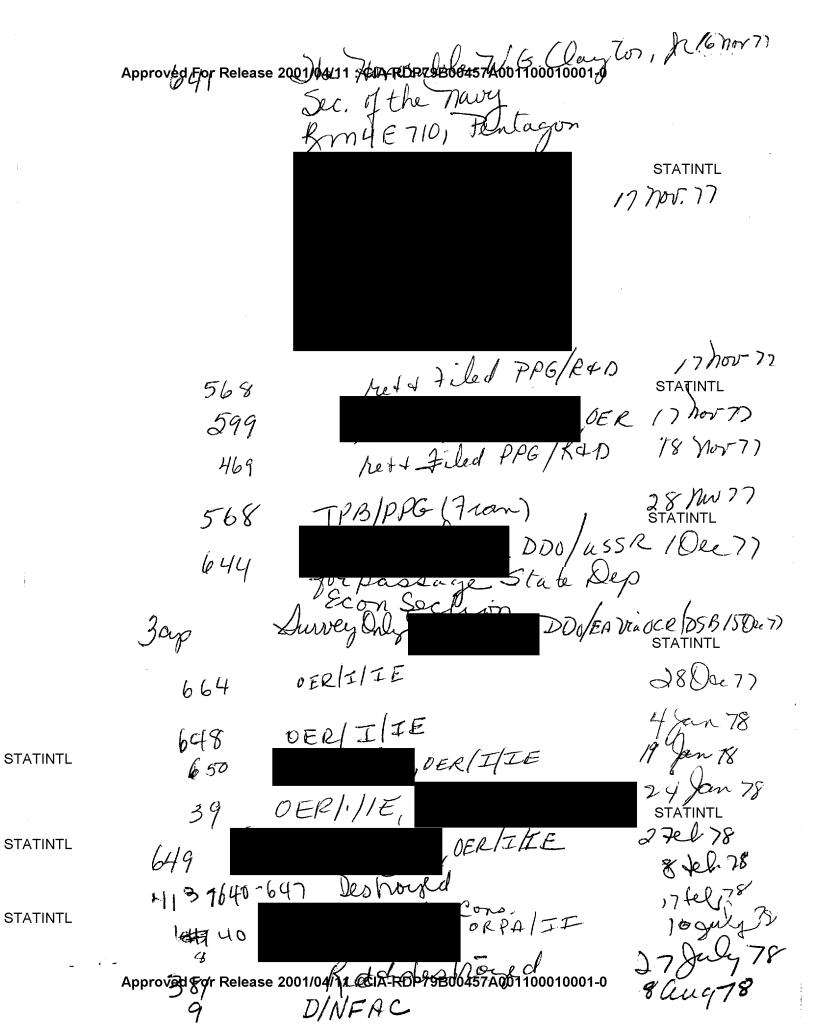
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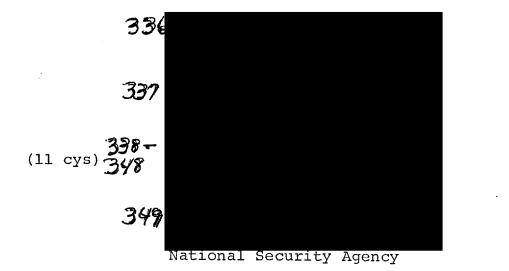
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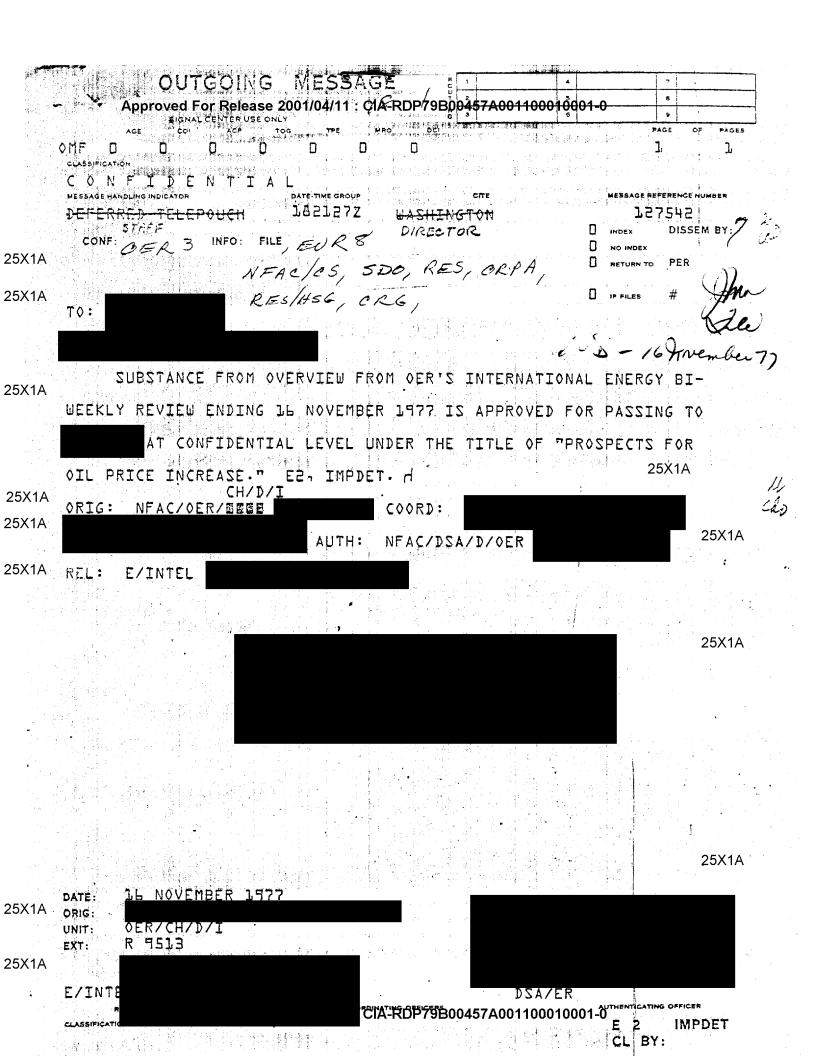
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INTERNATIONAL ENERGY BIWEEKLY REVIEW

Overview

At the moment, agreement on an increase of 5 to 10 percent in the price of Saudi benchmark crude seems probable as cartel members prepare for their December meeting in Caracas. Whatever the outcome at Caracas, the next OPEC price rise will occur in the midst of an already troubled economic environment. Almost without exception the economic outlook for developed countries is poor—real growth is slowing almost across the board, unemployment is high and creeping still higher, and inflation remains stuck at double the long-term rate. Each of these problems will be aggravated by higher oil prices. In the event of a 10-percent oil price rise, the loss in Big Seven real GNP will approximate half a percent while nearly a full percentage point will be added to the rate of inflation. The damage to growth could be substantially worse if oil-related losses in real income and price stability spark a strong negative reaction from consumers and investors.

Smaller industrial countries will be hit harder than the Big Seven by the oil price rise on several counts. For one thing, the direct loss in GNP will be larger since the smaller countries spend a higher proportion of their income on imported oil. In several cases, notably Turkey, severe payments problems and inability to finance higher oil import costs will necessitate still larger reductions in real GNP, perhaps as much as 2 percent in some instances. For non-OPEC LDCs, the chief impact of higher oil prices will be a more than \$2 billion worsening in their current account deficit. In these circumstances, developing countries would need offsetting increases in foreign exchange drawdowns or added foreign borrowing to maintain imports and avoid losses in consumption and growth.

Our analysis does not attempt to assess the impact of the next OPEC price rise on longer term problems, particularly the issue of future oil supply shortages. Given the lead times involved in developing new supplies, the main adjustments will have to be made on the demand side through higher real prices and in turn slower economic growth, as well as stricter government-mandated conservation measures. At this point, it is impossible to assess how much of an impact toward closing the potential energy supply gap a 10-percent nominal price increase will have.

Despite the potential adverse effects of an oil price rise, foreign governments are not inclined to appeal to OPEC for restraint. The developed countries—large and

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16 November 1977

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small—are convinced that only the United States can put effective pressure on OPEC. While many would join in a move to try to hold oil prices down, they believe it would be merely a pro forma exercise. Others, which want to preserve what they believe are special relationships with OPEC countries, would try to avoid any involvement. The non-OPEC LDCs may argue against an oil price hike but would do it privately and on their own. Association with the developed countries on this issue would be politically unthinkable. (Confidential)

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